MICRO Hi-Fi COMPONENT SYSTEM

RD-HD5MD/HD7

SERVICE MANUAL

(HD-5MD/HD-7)

KENWOOD

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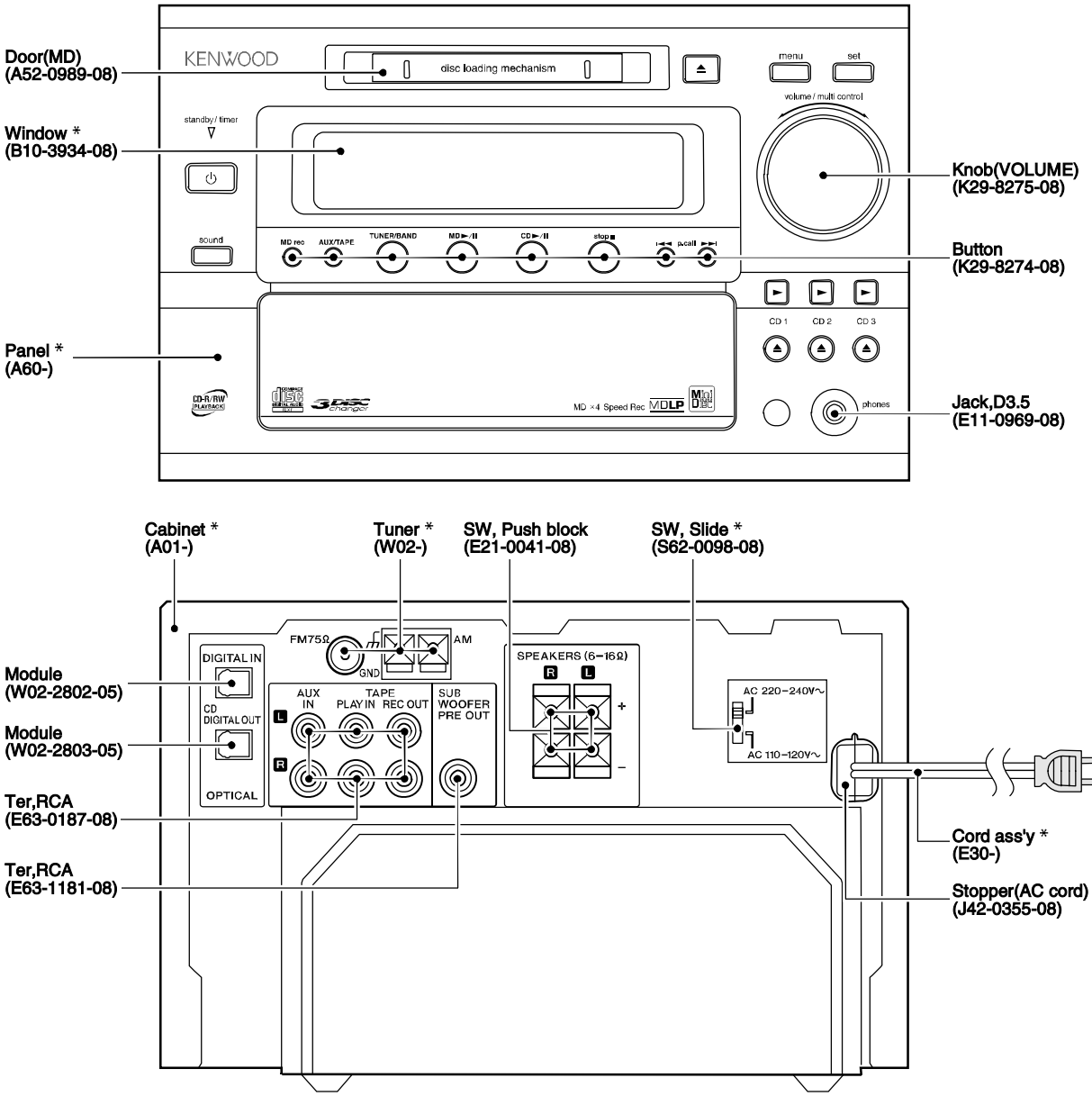
B51-5835-00 (K/K) 3430



* Refer to parts list on page 41.

Illust. is RD-HD5MD.

In compliance with Federal Regulations, following are reproduction of labels on, or inside the product relating to laser product safety.

KENWOOD Corp. certifies this equipment conforms to DHHS Regulations No.21 CFR 1040. 10, Chapter 1, subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

Caution : No connection of ground line if disassemble the unit. Please connect the ground line on rear panel, PCBs, Chassis and some others.

70%

RD-HD5MD/HD7

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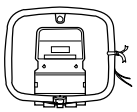
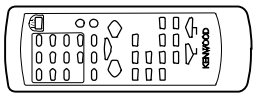
Accessories

AM loop antenna (1)
(T90-0903-08)

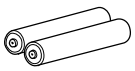


FM indoor antenna (1)
(T90-0904-08)

Remote control unit (1)
(A70-1625-08): RD-HD5MD(T)
(A70-1626-08): RD-HD5MD(M), RD-HD7(V)
(A70-1629-08): RD-HD7(E,T)
(A70-1630-08): RD-HD7(K)



Batteries (R6/AA) (2)



Cautions

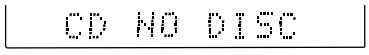
Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside.
This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours and restart the operation after the condensation has dried up.
Be specially cautious against condensation in a following circumstances:
When this unit is carried from one place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

❶ Remove the CD from the unit.
❷ Press the CD►/II key.



❸ Wait for some time and verify that the display appears as above.
❹ Wait a few seconds and turn the unit OFF.

Memory backup function

Stored contents which are cleared immediately when power plug is unplugged from power outlet :

Clock display
N.B. function

Stored contents which will back-up after power plug is unplugged from power outlet:

State of power (on or standby), A, P, S, Last input selection, AUX level, Volume control value, Balance control, Receiving band, Frequency, Preset station, Program Timer, TONE

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

Unplug the power cord from the power outlet, then while holding the set key on the main unit depressed, plug the power cord again.

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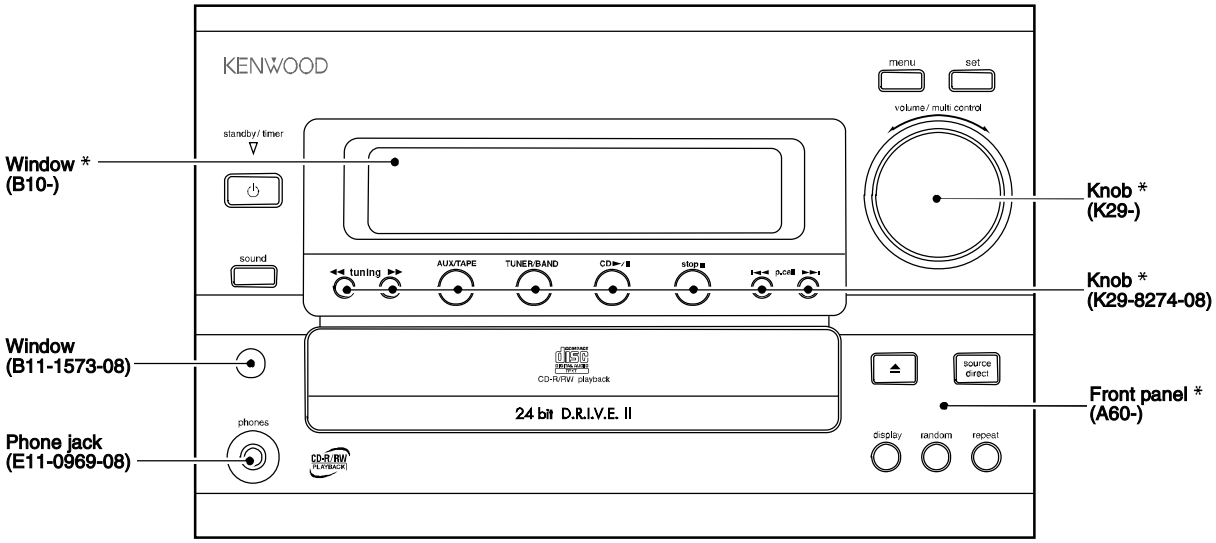
EXTERNAL VIEW



* Refer to parts list on page 41.
Illust. is RD-HD7.

SYSTEM CONFIGURATION

SYSTEM NAME	RECEIVER	SPEAKER
HD-5MD	RD-HD5MD	LS-HD7
HD-7	RD-HD7	LS-HD7

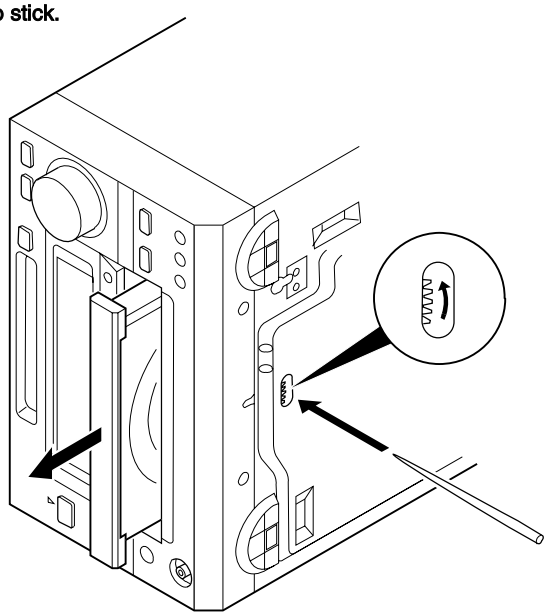
RD-HD5MD/HD7

DISASSEMBLY FOR REPAIR / ADJUSTMENT

DISASSEMBLY FOR REPAIR

How to open the tray if it does not come out.

1. Turn the gear in the direction of the arrow using a bamboo stick and so on in the drawing through the hole on the loading chassis bottom.
   Note : Do not use a screw driver like a metallic instead of a bamboo stick.
   (There is a danger of damaging the gear.)
2. Pull out the tray frontward by hand when it comes just out.



ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
AUDIO SECTION :		SELECTOR : EXCEPT TUNER MODE					
<1>	IDLE CURRENT (RD-HD7 only)	–	Connect a DC voltmeter to CP901 or CP902 CP901 (Lch) CP902 (Rch)	Volume: Minimum	VR203 (Lch) VR204 (Rch)	8 mV	

CIRCUIT DESCRIPTION

1. Initializing

1-1 Initializing Method

• While holding down the [SET] key, plugged in the power cord to AC power wall outlet.

1-2 Initializing Operation

• During the initial operation, the display shows "INITIALIZE "and after that it will be returned to standby condition.

2. Test Mode

2-1 Setting method of the Test Mode

Test Mode	Keys	Setting Method
CD Test Mode	CD PLAY PAUSE	Insert the AC cord to AC wall outlet while holding down the left key.
MD Test Mode	MD PLAY PAUSE	
MD Mecha. Test Mode	MD REC	

2-2 Cancel of the test mode

• Initialized and cancel the test mode if pulling out the power cord.

2-3 Operation of the Test Mode

Key	Operation	
	CD Test Mode	MD Test Mode
CD-PLAY/PAUSE (cyclically change the mode 05 and 03 by pressing the key.	Tracking-Servo ON/OFF	-
MENU	CD double speed CD normal speed	-
P.CALL UP	• CD Track number up •The pickup travels outward in the stop mode.	MD Track number up
P.CALL DOWN	• CD Track number down • The pickup travels inward in the stop mode.	MD Track number down
SET	-	Stop the MD operation, and start the ALL-ERASE operation if the disc is recordable.

3. MD Test Mode for Adjustment

3-1 Contents of the Test Mode

3-2 Entering the Test Mode

• Turn the AC on while pressing the MD[REC] key.

3-3 Canceling the Test Mode

• Turn the AC off.

3-4 Key Operations for Adjustment

KEYS	OPERATION
Volume/multi-control	Select the mode or changed the adjustment value.
MD PLAY/PAUSE	Fix the mode or adjustment value. Skip to next step.
STOP	Cancel the selected mode and changed to menu page. Return to the state previous before.

3-5 Selection of Adjustment Test Mode

• Whenever the [volume/multi-control] knob is turned the adjustment test mode is selected.

No.	LCD	DESCRIPTION	SECTION
1	TEMP ADJU	The work of adjustment is unnecessary in this mode.	4-5
2	LDPWR ADJU	Laser power adjustment.	4-6
3	LDPWR CHEC	Laser power check.	4-6
4	EFBAL ADJU	EF balance adjustment (Traverse adjustment).	4-7
5	TE B. ADJ	Automatic EF balance adjustment.	4-8
6	FBIAS ADJU	Focus bias adjustment.	4-9
7	CREC-PLAY	Continuous recording mode. Continuous playback mode.	3-7 3-6

For more information on each adjustment mode, refer to each section of 4, "Electrical adjustment".

3-6 Continuous Playback Mode

(1) Setting of Continuous Playback Mode

No.	Key	Display/Function
①	VOLUME	Select 「CREC-PLAY」
②		◎ Load a recordable disc.
③	▶/II (MD)	「CREC (ZZZZ)」 (CREC address) 0300h cluster = recording start point ↓ CPLAY ?
④	▶/II (MD)	CPLAY MID 「C = XXXX a = YY」 (error) C1 error ADIP error address MID = 0300h cluster
⑤	STOP	「CREC-PLAY」

3-7 Continuous Recording Mode

(1) Setting of Continuous Recording Mode

No.	Key	Display/Function
①	VOLUME	Select 「CREC-PLAY」
②		◎ Load a recordable disc.
③	▶/II (MD)	「CREC (ZZZZ)」 (CREC address) 0300h cluster = recording start point ↓ CPLAY ?
④	STOP	「CREC-PLAY」

4. Electrical adjustment

4-1 Precaution during confirmation of Laser Diode emission

During adjustment, do not view the emission of a laser diode from just above for confirmation. This may damage your eyes.

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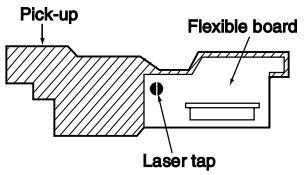
CIRCUIT DESCRIPTION

4-2 Precaution on handling of Optical pick-up (KMS-260B)

The laser diode in an optical pick-up is easy to be subject to electrostatic destruction. Therefore, solder-bridge the laser tap on the flexible board when handling the optical pick-up.

When removing the flexible board from the connector, make a solder bridge in advance, then remove the board. Be careful not to remove the solder bridge before inserting the connector. Moreover, take careful measures against electrostatic destruction. The flexible board is cut easily. Handle the flexible board with care.



4-3 Precaution during adjustment

1) Perform the adjustment and confirmation marked with "O" in the order shown in the table when the parts below are replaced.

	Optical pick-up	BD board		
		IC7	D3	IC1,IC2,IC6
1.Temperature compensation offset adjustment	X	O	O	O
2.Laser power adjustment	O	O	X	O
3.Traverse adjustment	O	O	X	O
4.Focus bias adjustment	O	O	X	O
5.Error rate confirmation	O	O	X	O

2) In the test mode, perform the adjustment. After adjustment is completed, cancel the test mode.
3) Perform the adjustment in the order described.
4) Use the following tools and measurement equipment.
   - CD test disc TGYS-1
   - Laser power meter
   - Oscilloscope (with bandwidth of more than 40 MΩ) (Calibrate the probe before measurement.)
   - Digital voltmeter
   - Thermometer
5) Take care that VC and GND (ground) are not connected on the oscilloscope when two or more signals are monitored on the oscilloscope. (VC and GND are short-circuited in this case.)

4-4 Creating the recordable continuous recording disc

This disc is used for focus bias adjustment and error rate confirmation. How to create the recordable continuous recording disc is 3-7.

4-5 Offset Adjustment

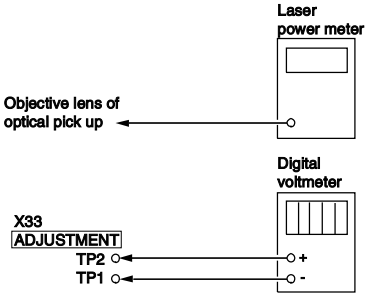
No.	Key	Display/Function
1	Volume/multi-control	Select [TEMP ADJU]
2	PLAY	[TEMP=xx (yy)]
		(xx=compensation data, yy=setting temperature)
3	Volume/multi-control	Input "yy" with present temp..
4	PLAY	[TEMP=**SA]
		[TEMP ADJU] in writing data

4-6 Laser Power Check and Adjustment

Laser power setting in playback and recording modes.

Preparation

1. Remove the MD mechanism from the unit.
2. Connect the digital voltmeter to TP1 and TP2 on X33 pcb.
3. Remove the top plate from traverse unit.
4. Remove the magnetic head.
5. Remount the MD mechanism to the unit



1. Laser Power Adjustment		
No.	Key	Display/Function
1	Volume/ multi-control	[LDPWR ADJU] Load recordable disc
2	PLAY	Load the disc and lazer on 「a 0.9mW) $xx] read power (xx=power value)
3	EJECT	Unload the disc and laser on
4	◄◄/►►|	Move the pickup to check the laser power with laser power meter sensor
5	Volume/ multi-control	Adjust "xx" so that the power meter shows 0.9mW.
6	PLAY	「a 7.0mW) $xx] writing power
7	Volume/ multi-control	Adjust "xx" so that the power meter shows 7.0mW. This adjustment should be carried out in 15 secs.
8	PLAY	Laser power off Display shows [LDPWR ADJU] after [LDPWR<$xx] to save the data in E2PROM

Start from No.2 if readjust.

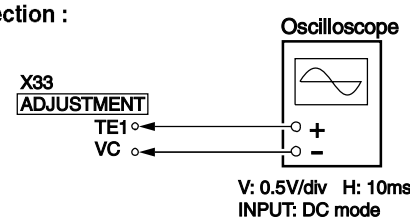
2. Laser Power Check		
No.	Key	Display/Function
1	Volume/multi-control	[LDPWR CHEC]
2	PLAY	「c 0.9mW) $xx]
		(xx=0.85 to 0.95mW)
3	PLAY	「c 7.0mW) $xx] Laser power meter: 7.0±1.0mW* VOM:optical pickup indication value ±10%*

(optical pick-up label)

In this case, Iop = 82.5 mA
Iop(mA) = Reading of digital voltmeter(mV)/1(Ω)

4-7 EF Balance(Traverse Adjustment)

Connection :



V: 0.5V/div H: 10ms/div
INPUT: DC mode

CIRCUIT DESCRIPTION

1. Recordable Disc		
No.	Key	Display/Function
1		Connect the oscilloscope to TE1 and VC in X33 pcb
2	Volume/ multi-control	Select [EFBAL ADJU]
3		Load the recordable disc
4	PLAY	[EFBAL MO-W]
5	PLAY	[EF=$✳✳MOW]
6	Volume/ multi-control	Write power adjustment. Adjust the waveform as follows.
7	PLAY	Display shows [EF=$✳✳MOR] after [EFB=✳✳xSAVE] to save the data in E2PROM. *Mode changes write to read* Focus and disc servo are on. Tracking servo off.
8	Volume/ multi-control	Read power adjustment. Adjust the waveform as follows.
9	PLAY PLAY	Save the data in E2PROM. Display shows [EFBAL MO-P] Display shows [EF=$✳✳MOP] (Pickup travels to search pits and tune the servo to on.)
10	Volume/ multi-control	Adjust the waveform as follows.
11	PLAY	Display shows[EFB=✳✳xSAVE] to save the data in E2PROM. Display shows [EFBAL CD] disc motor stops.
12	EJECT	Unload disc.
2. Pre Master Test Disc(TGYS-1)		
No.	Key	Display/Function
1		Load the disc(TGYS-1).
2	PLAY	[EF=$✳✳CD] servo is on
3	Volume/ multi-control	Adjust the waveform as follows.
4		Save the data in E2PROM. Display shows[EFB=✳✳xSAVE] in brief time. 「EF PHASE」
5	EJECT	Unload disc.

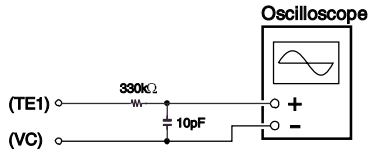
During this adjustment, the oscilloscope changes in units of about 2%. Adjust so that the waveform comes nearest to the specified value. (MO groove read power traverse adjustment)

(Traverse waveform)

Specification : A = B

Notes :

1. Data is erased during MO write when a recorded disc is used for this adjustment.
2. If the traverse waveform is difficult to be monitored, connect an oscilloscope as shown in the figure below.



4-8 Automatic EF Balance Adjustment

• Automatic EF balance adjustment is performed.

No.	Key	Display/Function
①	Volume	「TE B. ADJ 」
②		Load a recordable disc.
③	►/II MD	「TE B. MO-W」(Automatic Adjustment Mode Indication) =Low Reflection • Groove • Writing Power Automatic Adjustment
④		Display shows「EFB = XXX SAVE」in brief time and save the data in E2PROM. Next step
⑤		「TE B. MO-R」(Automatic Adjustment Mode Indication) =Low Reflection • Groove • Reading Power Automatic Adjustment
⑥		Display shows「EFB = XXX SAVE」in brief time and save the data in E2PROM. Next step
⑦		「TE B. MO-P」(Automatic Adjustment Mode Indication) =Low Reflection • PIT • Reading Power Automatic Adjustment
⑧		Display shows「EFB = XXX SAVE」in brief time and save the data in E2PROM. Next step
⑨		「EFBAL CHANGE」(Unload a disc)
⑩		Load a pre-master test disc(TGYS-1).
⑪	►/II MD	「TE B. CD」(Automatic Adjustment Mode Indication) =High Reflection • PIT • Reading Power
⑫		Display shows「EFB = XXX SAVE」in brief time and save the data in E2PROM. 「EF PHASE」menu

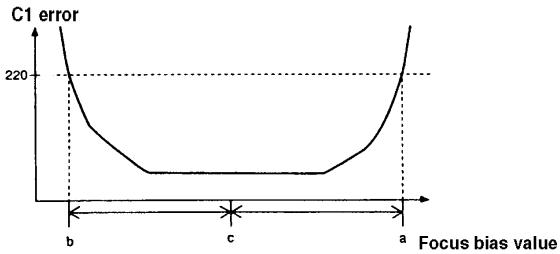
4-9 Focus Bias Adjustment

Use the special disc(continuous recorded disc)

No.	Key	Display/Function
1	Volume/multi-control	Select [FBIAS ADJU]
2		Load the disc.
3	PLAY	[a=xx yyyy/] point a (xx=focus bias, yyyy=C1error)
4	Volume/multi-control	Adjust "yyyy" to 220✳
5	PLAY	[b=xx yyyy/] point b
6	Volume/multi-control	Adjust "yyyy" to 220✳
7	PLAY	[xx yyyy/] point c Check "yyyy" within 50
8	PLAY	Display shows [aa bb cc(xx)] focus bias adjust (aa= point a,bb=b,cc=c)

* Notes :

1. The relation between the C1 error and focus bias value is shown in the figure below. Points “a” and “b” in the figure are detected by the above adjustment. Focal position “C” is automatically obtained from points “a” and “b” by calculation.
2. The C1 error rate fluctuates. Therefore, perform the adjustment according to the observed mean value.



4-10 Error Rate Check

No.	Key	Display/Function
1. CD Error Rate		
1	Volume/ multi-control	[CREC-PLAY]
2		Load the test disc(TGYS-1)
3	PLAY	Display shows [CPLAY MID] Access end [c=xxxx a=yy] xxxx=C1 error (lower 20) yy=AIDP error
4	STOP	[CREC-PLAY]
5	EJECT	Unload disc.
2. MO Error Rate		
No.	Key	Display/Function
1	Volume/ multi-control	[CREC-PLAY]
2		Load the recordable disc
3	PLAY	Display shows [CPLAY MID] Access end [c=xxxx a=yy] xxxx=C1 error (lower 50) yy=AIDP error(00)
4	STOP	[CREC-PLAY]
5	EJECT	Unload disc.

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CIRCUIT DESCRIPTION

5. Pin Description of Microprocessor

Pin No.	Pin Name	I/O	Pin Description
1	PLL DATA	O	Data output to PLL IC.
2	PLL CLK	O	Clock output to PLL IC.
3	FAN CONTROL	-	Unused.
4	SYS DATA	O	Data output to M61510FP (IC204) and M62429P (IC203).
5	M61510FP CLK	O	Data output to M61510FP (IC204).
6	M62429P CLK	O	Clock output to M62429P (IC203).
7	CE	I	Detection port of AC off.
8	BYTE	-	Connected to ground.
9	CNVSS	-	Connected to ground.
10	XCIN	I	Clock input (32.768kHz).
11	XCOUT	O	Clock output (32.768kHz).
12	RESET	I	Reset signal input for microprocessor.
13	XOUT	O	Main clock output (1MHz).
14	VSS	-	Connected to ground.
15	XIN	I	Main clock input (1MHz).
16	VCC	-	Power supply.
17	NMI	-	Connected to VCC.
18	REMOCON IN	I	Input port of remote control signal.
19	RDS CLK	I	RDS clock input (E/T type only).
20	BL KCK	I	Clock signal (88.2kHz) output.
21	PLL H/L	O	Switching port of reference current for CD DSP.
22	STEREO	I	Stereo signal input of tuner.
23	SD	I	Detection terminal of SD signal for TUNER.
24	LIMIT	I	Detection port of CD limit switch.
25	CD D. ON	-	Unused.
26	MLD	O	Command load signal output to CD DSP.
27	RDS DATA	I	RDS data input (E/T type only).
28	CD SPEED	O	Play back output port of hi-speed for CD.
29	MD RX	I	Data input from MD mechanism microprocessor.
30	MD TX	O	Transmission data output to MD mechanism microprocessor.
31	FLT DATA	O	Data output to FL driver.
32	RXD	I	Data input from EEPROM writer.
33	FLT CLK	O	Clock output to FL driver.
34	FLT CS	O	CS output to FL driver.
35	M DATA	O	Command data output to CD DSP.
36	STAT	I	Status signal input from CD DSP.
37	MLCK	O	Command clock signal output to CD DSP.
38	MD CE	O	CE of MD mechanism .
39	MD RESET	O	Reset signal output to MD mechanism.
40	BLUE LED CONT	O	Control port of blue led.
41	NC	-	Unused.
42	SUBQ	I	Data input for CD sub Q data.
43	CD SQCK	O	Clock output for CD sub Q data.
44	R/W SELECT	I	GCTL & APC control.
45	OFFTPK	O	Switching port of capacitance for RF bright side envelope detection.
46	FLT RESET	O	Reset signal output to FL driver.
47	D MUTE	O	Mute control for CD DSP.
48	CD LD ON	O	Control port of CD laser diode.
49	CD RESET	O	Reset output to DSP IC.
50	CD DC OFF	O	Power control of 4channel BTL driver.
51	DISC OPEN	O	Control port of CD tray motor driver.
52	DISC UP	O	Control port of CD lift motor driver.
53	DISC DOWN	O	Control port of CD lift motor driver.
54	DISC CLOSE	O	Control port of CD tray motor driver.
55	TMC	O	Speed control port for CD mechanism.

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
56	CD SW4	I	Unclamp switch (SW4) input of CD mechanism.
57	CD SW5	I	T.U High-A switch (SW5) input of CD mechanism.
58	CD SW7	I	Holder Home switch (SW7) input of CD mechanism.
59	CD SW6	I	T.U High-B switch (SW6) input of CD mechanism.
60	CD SW3	I	Load /Clamp switch (SW3) input of CD mechanism.
61	CD SW11	I	Photo2 (SW11) input of CD mechanism.
62	VCC	-	Power supply for microprocessor.
63	CD BOSS	I	Boss sensor input of CD mechanism.
64	VSS	-	GND
65	CD SW8	I	Holder-H switch (SW8) input of CD mechanism.
66	CD SW2	I	Tray Close/HP switch (SW2) input of CD mechanism.
67	CD SW1	I	Tray Open switch (SW1) input of CD mechanism.
68	SENSOR	I	Sensor input of CD mechanism.
69	MD D. CON	O	Digital control port for level shift IC (IC206).
70	PROTECT2	I	Detection port of protection2.
71	PROTECT1	I	Detection port of protection1.
72~74	OPTION(1~3)	-	Unused.
75	POWER RELAY	O	Power relay control.
76	AMUTE	O	Audio mute control.
77	SP RELAY	O	Speaker relay control.
78~80	OPTION(4~6)	-	Unused.
81	MD	O	Mode control data output to D/A converter.
82	MC	O	Mode control clock output to D/A converter.
83	ML	O	Mode control latch output to D/A converter.
84	ST BY LED G	O	Timer LED (green) control terminal.
85	ST BY LED R	O	Standby LED (red) control terminal.
86	ENCODER A	I	Input port of rotary encoder (volume).
87	ENCODER B	I	Input port of rotary encoder (volume).
88	TU DC OFF	O	Power control port for tuner.
89	FAN IN	I	Detection port for fan level.
90~92	KEY(1~3)	I	Key signal inputs.
93	LEVEL L	I	Input port of REC amplifier.
94	LEVEL R	I	Input port of REC amplifier.
95	PLL CE	O	PLL chip enable.
96	AVSS	-	Analog ground.
97	N.C	-	Unused.
98	VREF	-	A/D,D/A reference voltage.
99	AVCC	-	Microprocessor power supply.
100	PLL DO	I	Input of PLL IC data.

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CIRCUIT DESCRIPTION

6. Pin Description of IC's

6-1 Power Amplifier : STK402 (IC1) RD-HD5MD only

Pin No.	Pin Name	Pin Description
1	IN1	Main Rch input
2	NF1	Main Rch feed back
3	NC	Unused
4	PVCC+	Pre power supply (+B)
5	BIAS	Bias connection pin
6	VE1+	Main Rch (+) output
7	VE1-	Main Rch (-) output
8	VCC+	Power supply (+B)
9	VCC-	Power supply (-B)
10	VE2+	Main Lch (+) output
11	VE2-	Main Lch (-) output
12	PVCC-	Pre power supply (-B)
13	GND	GND
14	NF2	Main Lch feed back
15	IN2	Main Lch input

6-2 Audio Selector / E. Volume IC : M61510FP (IC204)

Pin No.	Pin Name	I/O	Pin Description
1	REF IN	I	Input pin of the reference amplifier.
2	REF OUT	O	Output pin of the reference amplifier.
3,40	CD(L,R)	I	Input pin of the CD.
4,39	MD(L,R)	I	Input pin of the MD.
5,38	TAPE(L,R)	I	Input pin of the Tape play.
6,37	TUNER(L,R)	I	Input pin of the TUNER.
7,36	AUX(L,R)	I	Input pin of the AUX.
8,35	IN VOL OUT(1,2)	O	Output pin of the input volume 1 and 2.
9,34	IN REC-C	O	Output pin of the volume input selector B1and B2.
10,33	VSEL A OUT	-	Capacitor connection pin for the volume changing noise reduction.
11,32	LOUD(1,2)	-	Frequency characteristic setting pin in the loudness part.
12,31	BI(1,2)	-	Frequency characteristic setting pin in the tone control (Bass).
13,30	BO(1,2)	-	Frequency characteristic setting pin in the tone control (Bass).
14,29	MI(1,2)	-	Frequency characteristic setting pin in the tone control (Mid).
15,28	MO(1,2)	-	Frequency characteristic setting pin in the tone control (Mid).
16,27	TRE(1,2)	-	Frequency characteristic setting pin in the tone control (Treble).
17,26	VSEL B OUT(1,2)	O	Output pin of the volume input selector B1and B2.
18,25	VOL IN(1,2)	I	Input pin of the main volume.
19,24	VOL OUT(1,2)	O	Output pin of the main volume.
20	VCC	-	Power supply (+5.0V)
21	DATA	I	Input pin of the serial data.
22	CLK	I	Clock input.
23	GND	-	GND
41	REC-B2	O	REC-B2 output.
42	REC-B1	O	REC-B1 output.

CIRCUIT DESCRIPTION

6-3 Rec Amplifier : BA6138 (IC205)

Pin No.	Pin Name	I/O	Pin Description
1	MUTE	-	Mute control pin(Unused)
2	OUT1	O	L ch output
3	DET1	-	Unused
4	IN1	I	Input of REC output (L ch)
5	GND	-	GND
6	IN2	I	Input of REC output (R ch)
7	DET2	-	Unused
8	OUT2	O	R ch output
9	VCC	-	Power supply (+5.0V)

6-4 DSP IC : MN6627482WB(IC502)

Pin No.	Pin Name	I/O	Pin Description	Active	
				H	L
1	BCLK	O	Bit clock output for SRDATA.		
2	LRCK	O	L, R clock signal output.		
3	SRDATA	O	Serial data output.		
4	DVDD1	-	Digital power supply.		
5	DVSS1	-	Digital ground.		
6	TX	O	Digital audio interface signal output.		
7	MCLK	I	CPC command clock signal input.		
8	MDATA	I	CPU command data signal input.		
9	MLD	I	CPU command load signal input.		Load
10	SENSE	O	Sense signal output(OFT, FESL, NACEND, NAJEND, SFG).		
11	FLOCK	O	Focus servo signal output.		
12	TLOCK	O	Tracking servo signal output.		
13	BLKCK	O	Sub code block clock output. fBLKCK = 75Hz		
14	SQCK	I	Sub code Q data clock input pin.		
15	SUBQ	O	Sub code Q data signal output pin..		
16	DMUTE	I	Connected to be ground.	Mute	
17	STAT	O	Status signal output.		
18	RST	I	Reset signal input.		Reset
19	SMCK	O	8.4672MHz clock signal output when MSEL is H. 4.2336MHz clock signal output when MSEL is L.		
20	PMCK	O	88.2kHz clock signal output when default. Play signal output when command is carry out.	Play	
21	TRV	O	Traverse forced feed output.		
22	TVD	O	Traverse drive output.		
23	PC	O	Spindle motor on signal output. L : ON (Default)		
24	ECM	O	Drive signal output for spindle motor (forced mode output).		
25	ECS	O	Drive signal output for spindle motor (servo error signal output).		
26	KICK	O	Kick pulse output for tracking driver.		
27	TRD	O	Tracking servo drive output.		
28	FOD	O	Focus drive output.		
29	VREF	I	Reference power supply for DA output section.		
30	FBAL	O	Focus balance adjusting output.		
31	TBAL	O	Tracking balance adjusting output.		
32	FE	I	Focus error signal input (analog input).		
33	TE	I	Tracking error signal input (analog input).		
34	RFENV	I	RF envelope signal input (analog input).		
35	VDET	I/O	Vibrating detection signal input when default. Software vibrating detection monitor output when command is executed.	Detected	
36	OFT	I	Off track signal input.	Off Track	

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CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description	Active	
				H	L
37	TRCRS	I	Track cross signal input pin (analog input).		
38	RFDET	I	RF detector signal input pin.		Detected
39	BDO	I	Drop out signal input.	Drop Out	
40	LDON	O	Laser on signal output.	ON	
41	PLLF2	I/O	PLL loop filter switching pin.		
42	TOFS	O	Tracking offset adjusting output.		
43	WVEL	O	Double speed status signal output.	Double Speed	
44	ARF	I	RF signal input.		
45	IREF	I	Reference current input pin.		
46	DRF	I	DSL bias pin.		
47	DSLF	I/O	DSL loop filter pin.		
48	PLLF	I/O	PLL loop filter pin.		
49	VCOF	I/O	VCO loop filter pin.		
50	AVDD2	-	Analog power supply for DSL, PLL, and DA output section.		
51	AVSS2	-	Analog ground for DSL, PLL, and DA output section.		
52	EFM/CK384	O	EFM signal output when IOSEL is H. 16.9344MHz clock output when IOSEL is L.		
53	PCK/DSLB	O	PLL clock output (fPCK = 4.3218MHz) or DSL balance output.		
54	VCOF2	I/O	Jitter free VCO loop filter pin.		
55	SUBC	O	Sub code serial output.		
56	SBCK	I	Clock input for sub code serial output.		
57	VSS	-	GND		
58	X1	I	Crystal oscillation circuit input. f =16.9344MHz, 33.8688MHz		
59	X2	O	Crystal oscillation circuit output. f =16.9344MHz, 33.8688MHz		
60	VDD	-	Power supply for crystal oscillation circuit.		
61	BYTCK	O	Bite clock signal output when IOSEL is H. Traverse stop signal output when IOSEL is L.	Stop Mode	
62	CLDCK	O	General IO pin when default. Sub code frame clock signal output (fCLDCK = 7.35kHz) when command is carry out.		
63	FCLK	O	General IO pin when default. Crystal frame clock signal output (fFCLK = 7.35kHz) when command is carry out.		
64	IPFLAG	O	Interpolation flag signal output.		
65	FLAG	O	Flag signal output.		
66	CLVS	O	Spindle servo phase synchronism signal output.	CLV	
67	CRC	O	Sub code CRC checked output.	OK	NG
68	DEMPH	O	De-emphasis detection signal output.	ON	
69	RESY	O	Re-frame synchronism signal RESY output of frame synchronism when IOSEL is H. H : Synchronized L : Non synchronized		
70	IOSEL	I	Switching pin for mode.		
71	TEST	I	Test pin.	Normal	
72	AVDD1	-	Analog power supply for audio output section.		
73	OUTL	O	L ch audio output.		
74	AVSS1	-	Analog ground for audio output section.		
75	OUTR	O	R ch audio output.		
76	RSEL	I	• RF signal polarity assignment pin when default. RSEL is H when bright level is H. RSEL is L when bright level is L. • General IO pin when command is executed. RF signal polarity assignment is set by command.		

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description	Active	
				H	L
77	CSEL	I	Designation of oscillation frequency. H : f = 33.8688MHz L : f = 16.9344MHz		
78	PSEL	I	Test pin (Normal : L) when IOSEL is H. SRDATA input when IOSEL is L.		
79	MSEL	I	SMCK output when IOSEL is H. Switching pin of frequency. H : SMCK = 8.4672MHz L : SMCK = 4.2336MHz LRCK input when IOSEL is L. H : Lch data, L : Rch data SMCK = 4.2336MHz (Fixed)		
80	SSEL	I	SUBQ output mode switching pin when IOSEL is H. H : Q code buffer use mode L : CLDCK synchronism mode BCLK input when IOSEL is L. Q code buffer use mode		

6-5 D/A Converter : PCM1742 (IC507)

Pin No.	Pin Name	I/O	Description
1	BCK	I	Audio data bit clock input.
2	DATA	I	Audio data digital input.
3	LRCK	I	Audio data latch enable input.
4	DGND	-	Digital ground.
5	VDD	-	Digital power supply (+3.3V).
6	VCC	-	Analog power supply (+5V).
7	VOUTL	O	Analog output for L-channel.
8	VOUTR	O	Analog output for R-channel.
9	AGND	-	Analog ground.
10	VCOM	-	Common voltage decoupling.
11	ZEROR	O	Zero flag output for R-channel.
12	ZEROL	O	Zero flag output for L-channel.
13	MD	I	Mode control data input.
14	MC	I	Mode control clock input.
15	ML	I	Mode control latch input.
16	SCK	I	System clock input.

6-6 Digital Signal Processor : CXD2664R (X33, IC1)

Pin No.	Pin Name	I/O	Pin Description
1	MNT0	I/O	Monitor output.
2~4	MNT(1~3)	O	Monitor output.
5	VDC0	-	CORE power supply.
6	SWDT	-	Data input for microcomputer serial interface.
7	SCLK	-	Shift clock input for microcomputer serial interface.
8	XLAT	-	Latch input for microcomputer serial interface. Latched at the falling edge.
9	VSC0	-	CORE GND.
10	SRDT	O	Data output for microcomputer serial interface.
11	SENS	O	Outputs the internal status corresponding to the microcomputer serial interface address.
12	XRST	I	Reset input. Low : reset
13	SQSY	O	Disc subcode Q sync/ADIP sync output.
14	DQSY	O	U-bit CD or MD format subcode Q sync output when the digital in source is CD or MD.
15	RPWR	I	Laser power switching. High : recording power, Low : playback power
16	XINT	O	Interrupt request output. Low when the interrupt status occurs.
17	TX	I	Enable signal input for recording data output. High : enable
18	VDIO0	-	I/O power supply.
19	OSCI	I	Crystal oscillation circuit input.
20	OSCO	I/O	Crystal oscillation circuit output. (Input when OSCN = high.)

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CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
21	OSCN	I	Control for feedback resistor and inverter inside oscillation circuit.
22	VSIO0	-	I/O GND.
23	XTSL	I	OSCI pin input frequency switching. 512Fs (22.5792MHz) when XTSL 1 (command) =low and XTSL = high. 1024Fs (45.1584MHz) when XTSL 1 = low and XTSL = low. 2048Fs (90.3168MHz) whe
24,25	DIN (0,1)	I	Digital audio interface signal input (0,1).
26	DOUT	O	Digital audio interface signal output.
27	DATAI	I	3-wire data input for recording.
28	LRCKI	I	3-wire LR clock input for recording.
29	XBCKI	I	3-wire bit clock input for recording.
30	VDC1	-	CORE power supply.
31	VSC1	-	CORE GND.
32	ADDT	I	Data input from A/D converter.
33	DADT	O	REC monitor output/decoding audio data output.
34	LRCK	O	LR clock output to external audio block.
35	XBCK	O	Bit clock output to external audio block.
36	F256	O	256Fs output.
37	XWE	O	External DRAM write enable output.
38	XOE	O	External DRAM read enable output.
39	DRVDD0	-	DRAM interface power supply.
40	DRVSS0	-	DRAM interface GND.
41	A11	O	External DRAM address output.
42~45	D3,D0,D2,D1	I/O	External DRAM data bus.
46	XCAS	O	External DRAM XCAS output.
47	XRAS	O	External DRAM XRAS output.
48~56	A09~A10,A07,A00, A06,A01,A05,A02	O	External DRAM address output.
57	VDC2	-	CORE power supply.
58	VSC2	-	CORE GND.
59,60	A04,A03	O	External DRAM address output.
61	DRVDD1	-	DRAM interface power supply.
62	DRVSS1	-	DRAM interface GND.
63,64	TEST(0,1)	I	Connect to the analog power supply.
65	TEST2	O	No connected.
66	AVD1	-	Analog power supply.
67	ASYO	O	Playback EFM full-swing output.
68	ASYI	I	Playback EFM comparator slice voltage input.
69	BIAS	I	Playback EFM comparator bias current input.
70	RFI	I	Playback EFM RF signal input.
71	AVS1	-	Analog GND.
72	PCO	O	Phase comparison output for master PLL of playback digital PLL and recording EFM PLL.
73	FILI	I	Filter input for master PLL of playback digital PLL and recording EFM PLL.
74	FILO	O	Filter output for master PLL of playback digital PLL and recording EFM PLL.
75	CLTV	I	Internal VCO control voltage input for master PLL of playback digital PLL and recording EFM PLL.
76	PEAK	I	Peak hold signal input for quantity of light.
77	BOTM	I	Bottom hold signal input for quantity of light.
78	ABCD	I	Signal input for quantity of light.
79	FE	I	Focus error signal input.
80	AUX1	I	Auxiliary input 1.
81	VC	I	Center voltage input.
82	ADIO	O	Test. No connected.

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
83	ADRT	I	Voltage input for the upper limit of the A/D converter operating range.
84	ADRB	I	Voltage input for the lower limit of the A/D converter operating range.
85	SE	I	Sled error signal input.
86	TE	I	Tracking error signal input.
87	AVD2	-	Analog power supply.
88	AVS2	-	Analog GND.
89	DCHG	I	Connect to the low-impedance power supply.
90	APC	I	Error signal input for laser digital APC.
91	ADFG	I	ADIP binary FM signal input.
92	VDIO1	-	I/O power supply.
93	VSIO1	-	I/O GND.
94	F0CN	O	Current source setting output for RF amplifier.
95	VDC3	-	CORE power supply.
96	VSC3	-	CORE GND.
97	XLRF	O	Control latch signal output for RF amplifier.
98	CKRF	O	Control clock signal output for RF amplifier.
99	DTRF	O	Control data signal output for RF amplifier.
100	APCR	O	Reference PWM output for laser APC.
101	LDDR	O	PWM output for laser digital APC.
102	TRDR	O	Tracking servo drive PWM output (-).
103	TFDR	O	Tracking servo drive PWM output (+).
104	FFDR	O	Focus servo drive PWM output (+).
105	FRDR	O	Focus servo drive PWM output (-).
106	FS4	O	4Fs output.
107	SRDR	O	Sled servo drive PWM output (-).
108	SFDR	O	Sled servo drive PWM output (+).
109	SPRD	O	Spindle servo drive output. (PWM (-) or polarity)
110	SPFD	O	Spindle servo drive output. (PWM (+) or PWM absolute value)
111	FGIN	I	Spindle CAV servo FG input.
112~114	TST(1~3)	I	Test. Connect to GND.
115	EFMO	O	Low during playback. EFM (encoding data) output during recoding.
116	VDIO2	-	I/O power supply.
117	VSIO2	-	I/O GND.
118	VDC4	-	CORE power supply.
119	VSC4	-	CORE GND.
120	MDDT1	I	MD DATA mode 1 switching input. (Low : normal mode, High : MD-DATA mode 1)

6-7 MD RF AMP : CXA2523AR (X33, IC2)

Port No.	Port Name	I/O	Description	Active	
				H	L
1	I	I	RF signal (I) input.		
2	J	I	RF signal (J) input.		
3	VC	O	Center voltage input.		
4~7	A~D	I	Current input pin of main beam servo signal (A~D).		
8, 9	E, F	I	Current input pin of main beam servo signal (E,F).		
10	PD	I	APC amplifier input.		
11	APC	O	Laser APC output.		
12	APCREF	I	Reference voltage input for laser power setting.		
13	GND	-	GND		
14	TEMP I	I	Temperature sensor connection pin.		
15	TEMP R	I	Temperature sensor connection pin (outputs reference voltage).		
16	SWDT	I	Control data signal input from DSP (IC1).		
17	SCLK	I	Control clock signal input from DSP (IC1).		
18	XLAT	I	Control latch signal input from DSP (IC1).		Latch
19	XSTBY	I	Standby setting pin.	Normal ope.	Standby

CIRCUIT DESCRIPTION

Port No.	Port Name	I/O	Description	Active	
				H	L
20	F0CNT	I	Internal current setting pin.		
21	VREF	O	Reference voltage output (unused).		
22	EQADJ	I/O	Center frequency setting pin for EQ.		
23	3TADJ	I/O	Center frequency setting pin for BPF3T.		
24	VCC	-	Power supply.		
25	WBLADJ	I/O	Center frequency setting pin for BPF22.		
26	TE	O	Tracking error signal output.		
27	CSLED	-	Capacitor (LPF) connection pin for sled error signal.		
28	SE	O	Sled error signal output.		
29	ADFM	O	ADIP FM signal output.		
30	ADIN	I	ADIP signal comparator input.		
31	ADAGC	-	ADIP AGC capacitor connection pin.		
32	ADFG	O	ADIP binary signal output.		
33	AUX	O	Auxiliary output /temperature signal output.		
34	FE	O	Focus error signal output.		
35	ABCD	O	I-V amplifier output pin.		
36	BOTM	O	Bottom hold signal output of RF/ABCD.		
37	PEAK	O	Peak hold signal output of RF/ABCD.		
38	RF	O	RF equalizer output pin.		
39	RFAGC	-	Capacitor connection pin for RF AGC.		
40	AGCI	I	RF AGC input.		
41	COMPO	O	User comparator output pin (unused).		
42	COMPP	I	User comparator non-inversion input pin.		
43	ADDC	I/O	Capacitor connection pin of feed-back circuit for ADIP amplifier.		
44	OPO	O	User OP amplifier output (unused).		
45	OPN	I	User OP amplifier inversion input.		
46	RFO	O	RF amplifier output.		
47	MORFI	I	Input pin of RF signal for groove with AC coherence.		
48	MORFO	O	Output pin of RF signal for groove.		

6-8 4ch BTL Driver : BA5815FM (X33, IC4)

Pin No.	Pin Name	I/O	Pin Description
1	FWD	I	Input for loading forward.
2	REV	I	Input for loading reverse.
3	VCNT	I	Output control terminal for loading.
4	FIN1	I	CH1 PWM forward input.
5	RIN1	I	CH1 PWM reverse input.
6	FIN2	I	CH2 PWM forward input.
7	RIN2	I	CH2 PWM reverse input.
8	VCC1	-	VCC1(PRE,LD,CH1,CH2)
9	L (+)	O	Inverted output of loading.
10	L (-)	O	Not inverted output of loading.
11	SL (-)	O	Inverted output of CH2.
12	SL (+)	O	Not inverted output of CH2.
13	FCS (-)	O	Inverted output of CH1.
14	FCS (+)	O	Not inverted output of CH1.
15	TRK (+)	O	Not inverted output of CH4.
16	TRK (-)	O	Inverted output of CH4.
17	SP (-)	O	Not inverted output of CH3.
18	SP (+)	O	Inverted output of CH3.
19	GND	-	GND
20	VCC2	-	VCC2(CH3,CH4)
21	MUTE	I	Mute control.
22	OPOUT3	O	Output of CH3 OP-AMP.

Pin No.	Pin Name	I/O	Pin Description
23	OPIN3 (-)	I	Inverted input of CH3 OP-AMP.
24	OPIN3 (+)	I	Not inverted input of CH3 OP-AMP.
25	OPOUT4	O	Output of CH4 OP-AMP.
26	OPIN4 (-)	I	Inverted input of CH4 OP-AMP.
27	OPIN4 (+)	I	Not inverted input of CH4 OP-AMP.
28	BIAS	I	Input for reverse voltage (bias).

6-9 Head Coil Driver : BD7910FV (X33, IC8)

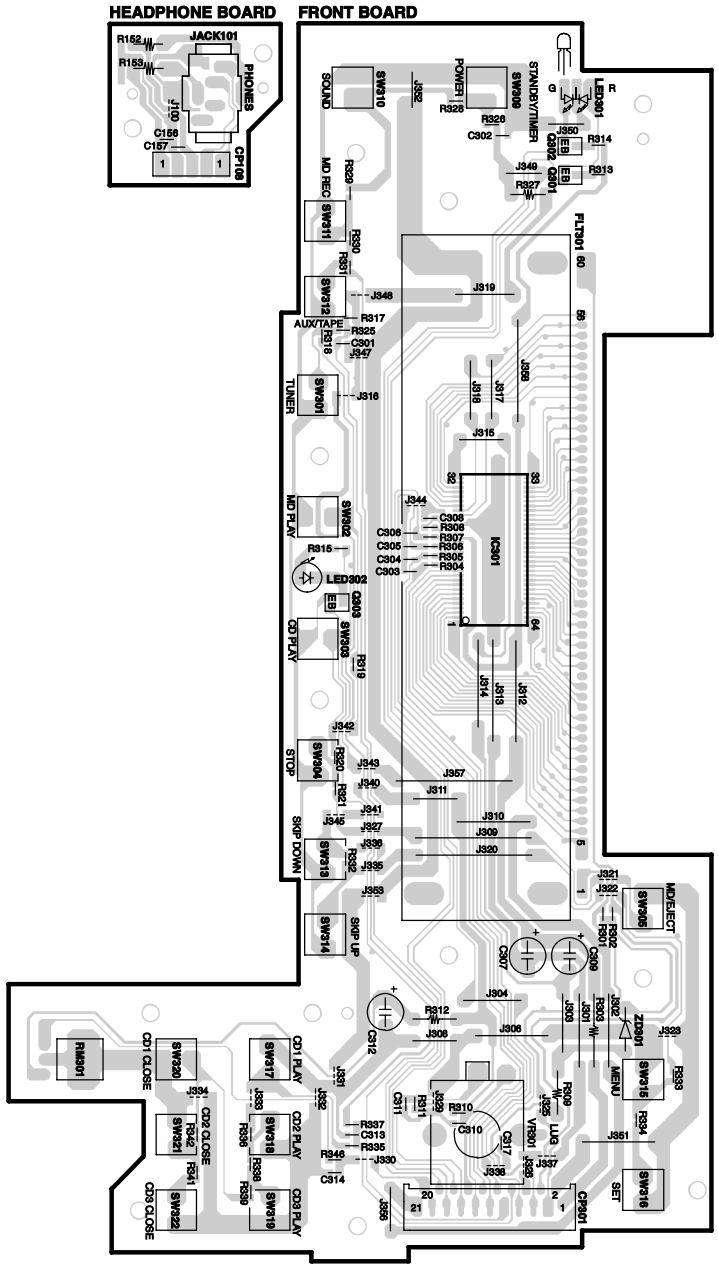
Pin No.	Pin Name	I/O	Pin Description
1	VregIN	I	Regulator Input & Regulator Power Supply
2	RegGND	-	Regulator GND
3	RegSEL	-	Regulator Select Pin
4	VG	I	Drive Voltage Input for Power MOS
5	VDD	I	Input of Supply Voltage for EFM Signal Source
6	PDGND	-	Pre Drive GND
7	EFM	I	EFM Signal Input
8	MUTE	-	Mute Control (High : Active)
9	NC	-	Open
10	NC	-	GND
11	NC	-	GND
12	V0D2	-	Sync Output
13	HGND	-	H Bridge Section GND
14	V0D1	O	Sync Output
15	V0S1	O	Source Output
16	HVDD	-	H Bridge Section Power Supply
17	V0S2	O	Source Output
18	RegDRV	O	PNP Drive Output for Regulator
19	RegOUT	O	Regulator Output
20	RegNF	-	Regulator Feed Back Pin

6-10 A/D, D/A Converter : AK4550VT(X33, IC10)

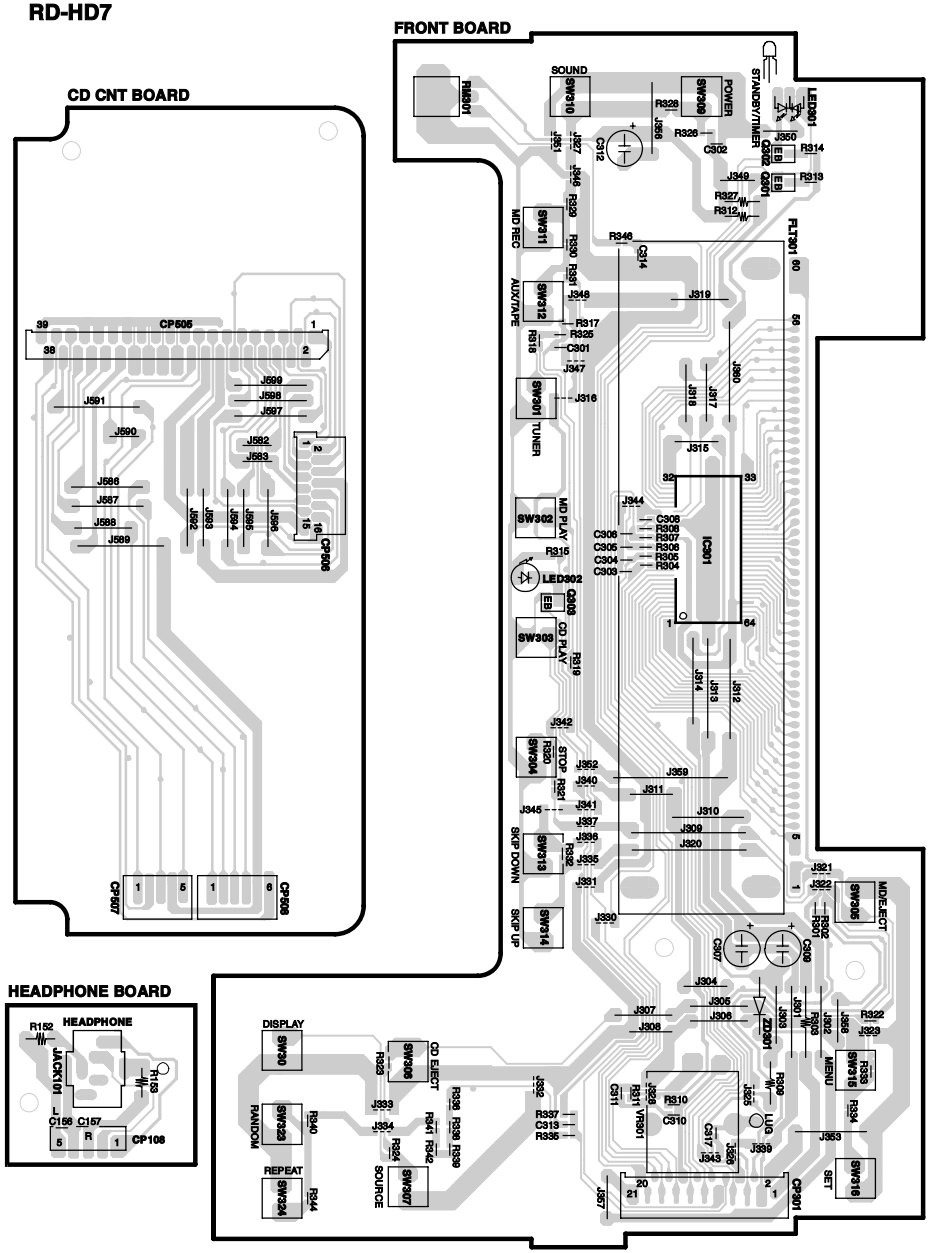
Pin No.	Pin Name	I/O	Pin Name
1	VCOM	O	Output Pin of Common Voltage
2	AINR	I	Input Pin of Analog R channel
3	AINL	I	Input Pin of Analog L channel
4	VSS	-	GND
5	VDD	-	Analog Power Supply
6	DEM0	I	De-emphasis Control Pin
7	DEM1	I	De-emphasis Control Pin
8	SDTO	O	Audio Serial Data Output Pin
9	SDTI	I	Audio Serial Data Input Pin
10	LRCK	I	L/R Channel Clock Pin
11	MCLK	I	Master Clock Input Pin
12	SCLK	I	Audio Serial Data Clock Pin
13	PWAD	I	ADC Power Down & Reset Mode Pin "L" : Power Down Mode
14	PWDA	I	DAC Power Down & Reset Mode Pin "L" : Power Down Mode
15	AOUTL	O	Output Pin of Analog L channel
16	AOUTR	O	Output Pin of Analog R channel

PC BOARD

RD-HD5MD

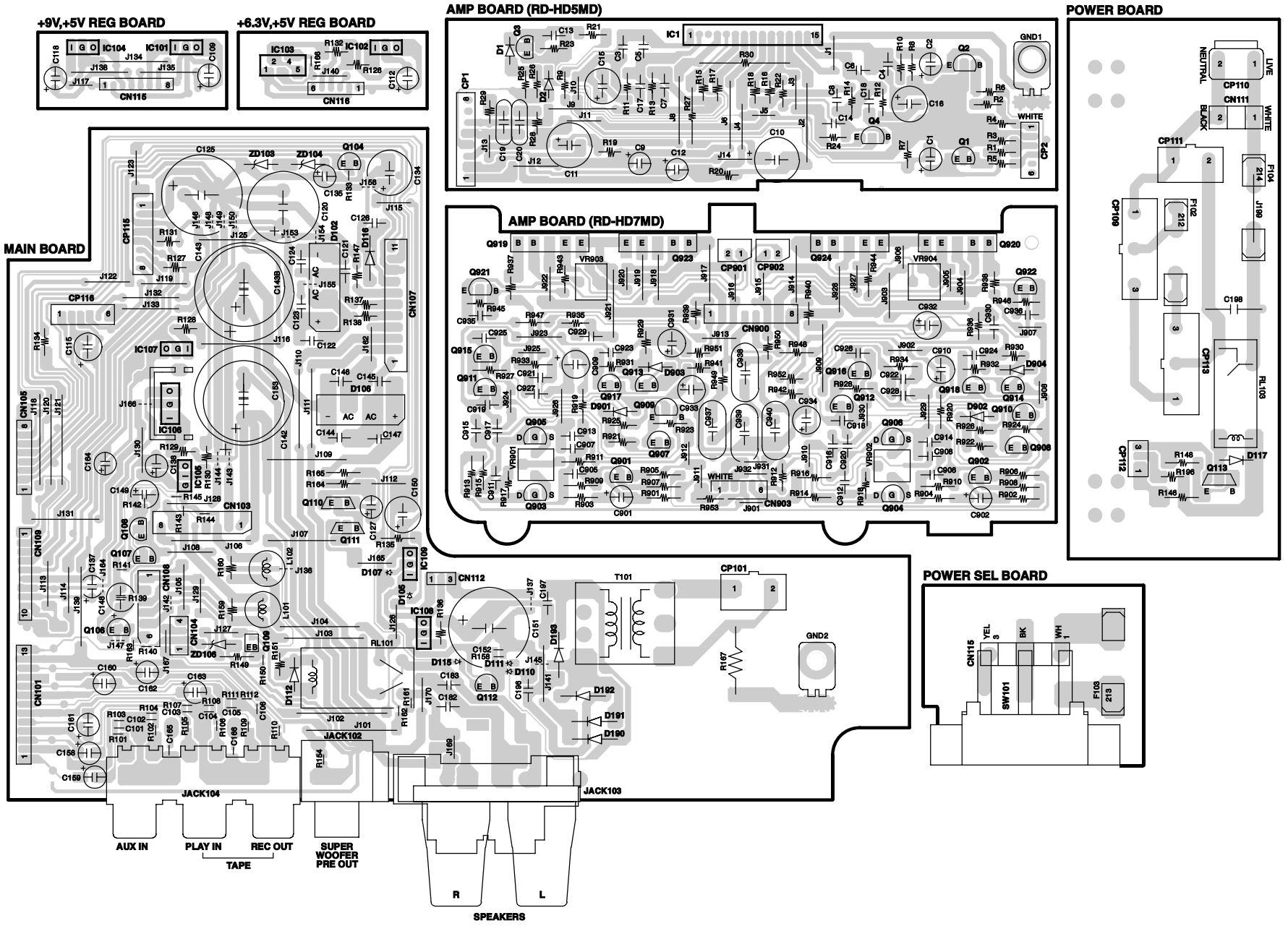


RD-HD7



Refer to the schematic diagram for the value of resistors and capacitors.

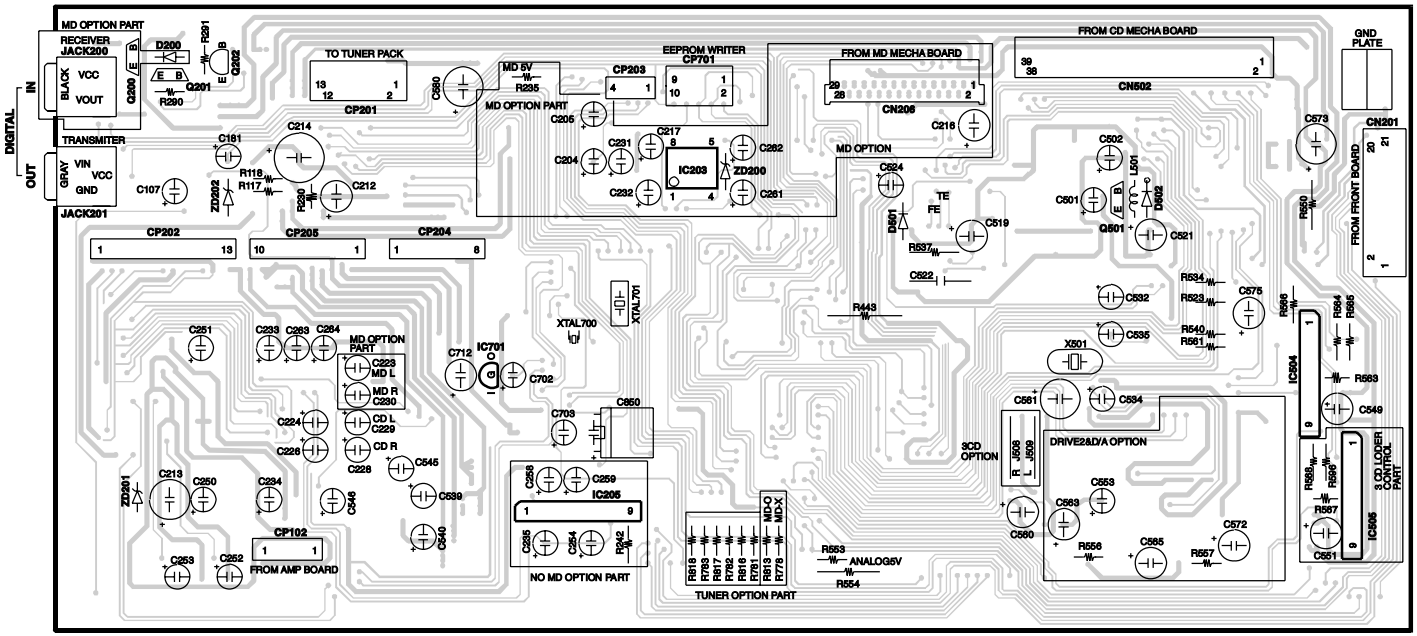
PC BOARD(Component side view)



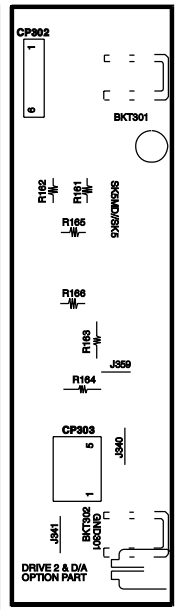
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD

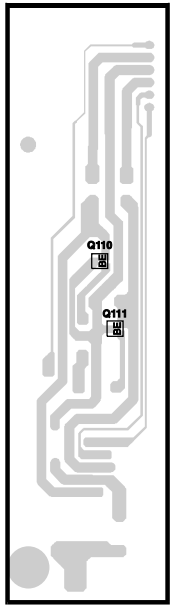
AUDIO: SIDE A



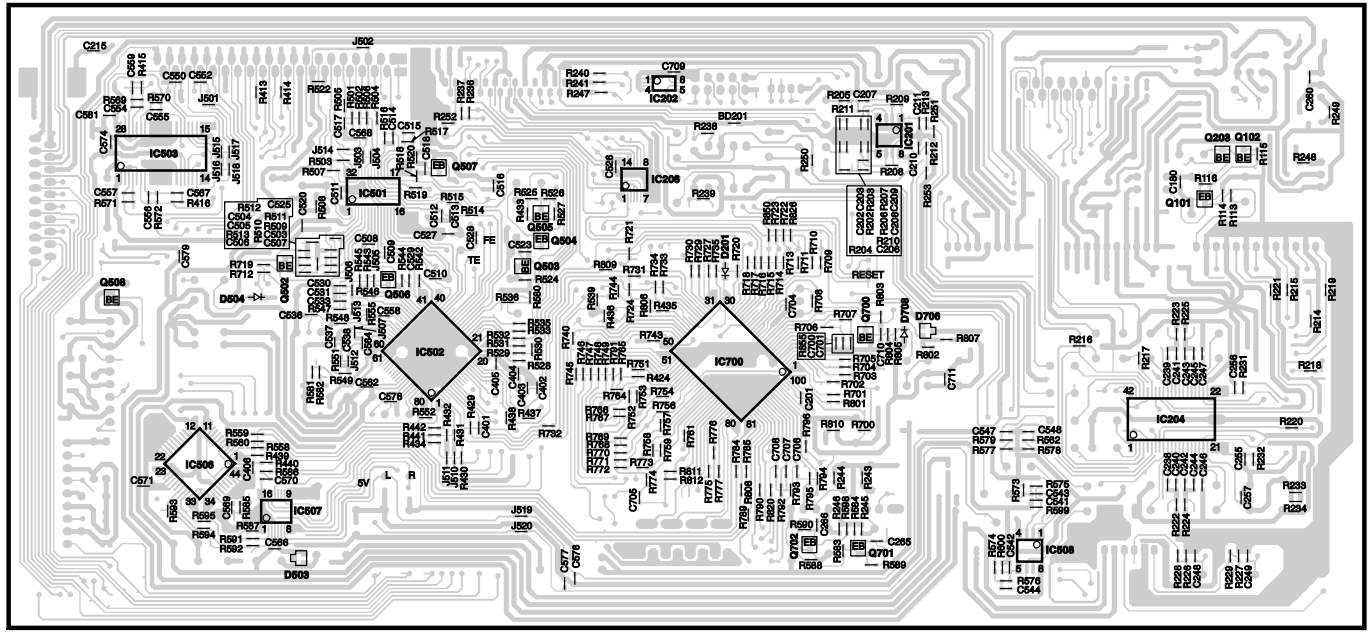
HEADPHONE CONTROL SIDE A



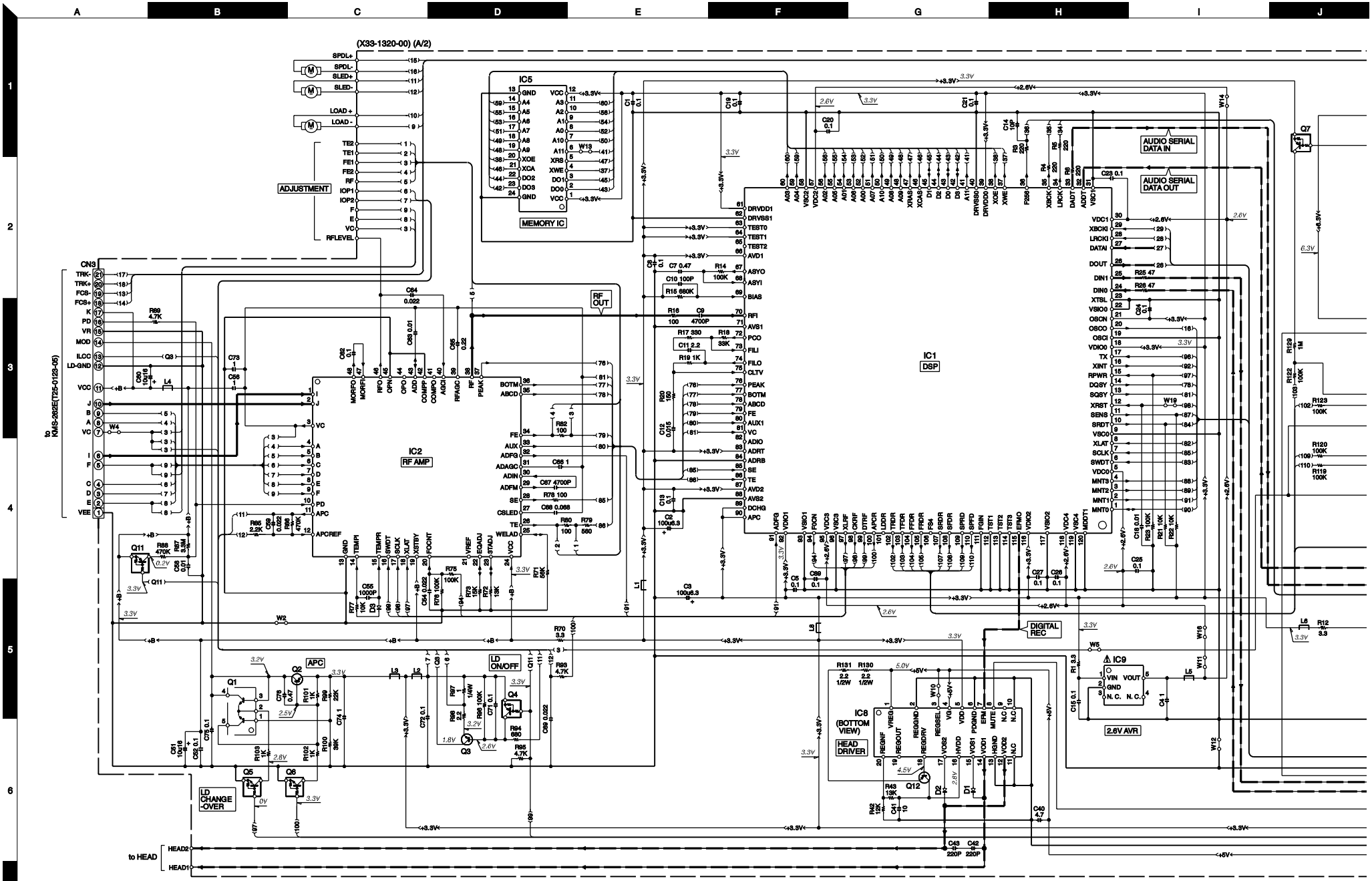
HEADPHONE CONTROL SIDE B



AUDIO: SIDE B

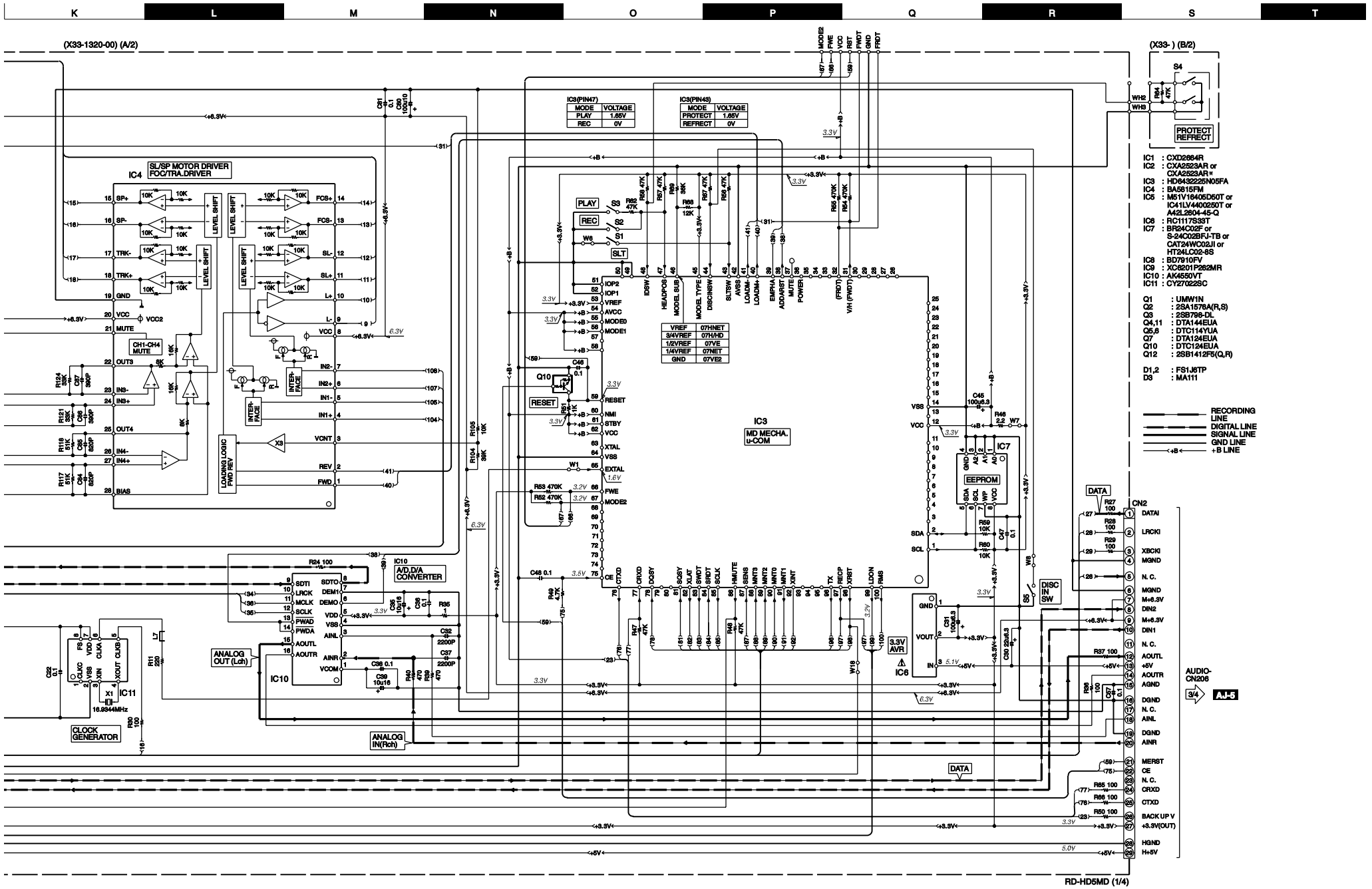


Refer to the schematic diagram for the value of resistors and capacitors.



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

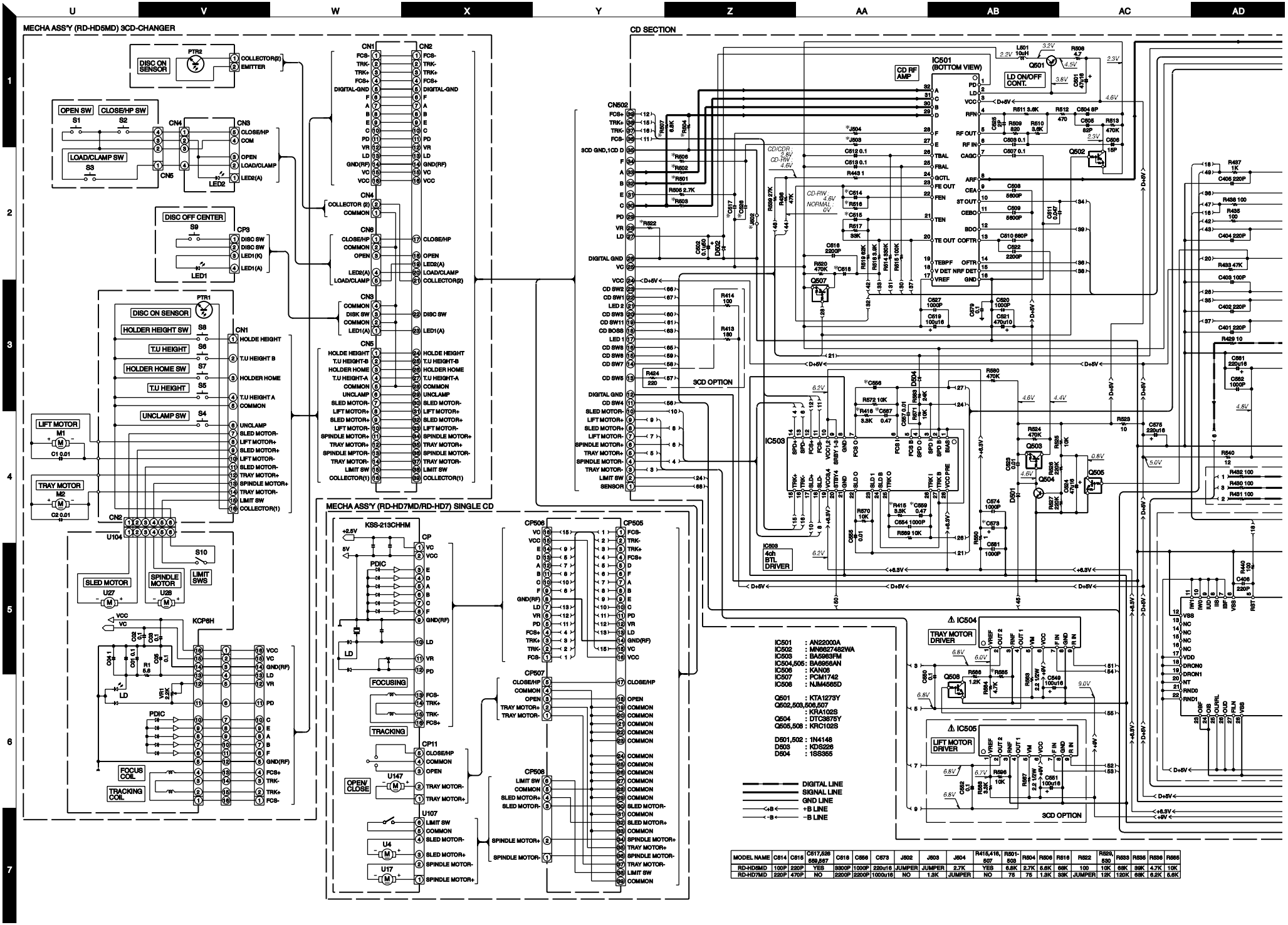
The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY with DASC OFF (at the normal speed) unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP.



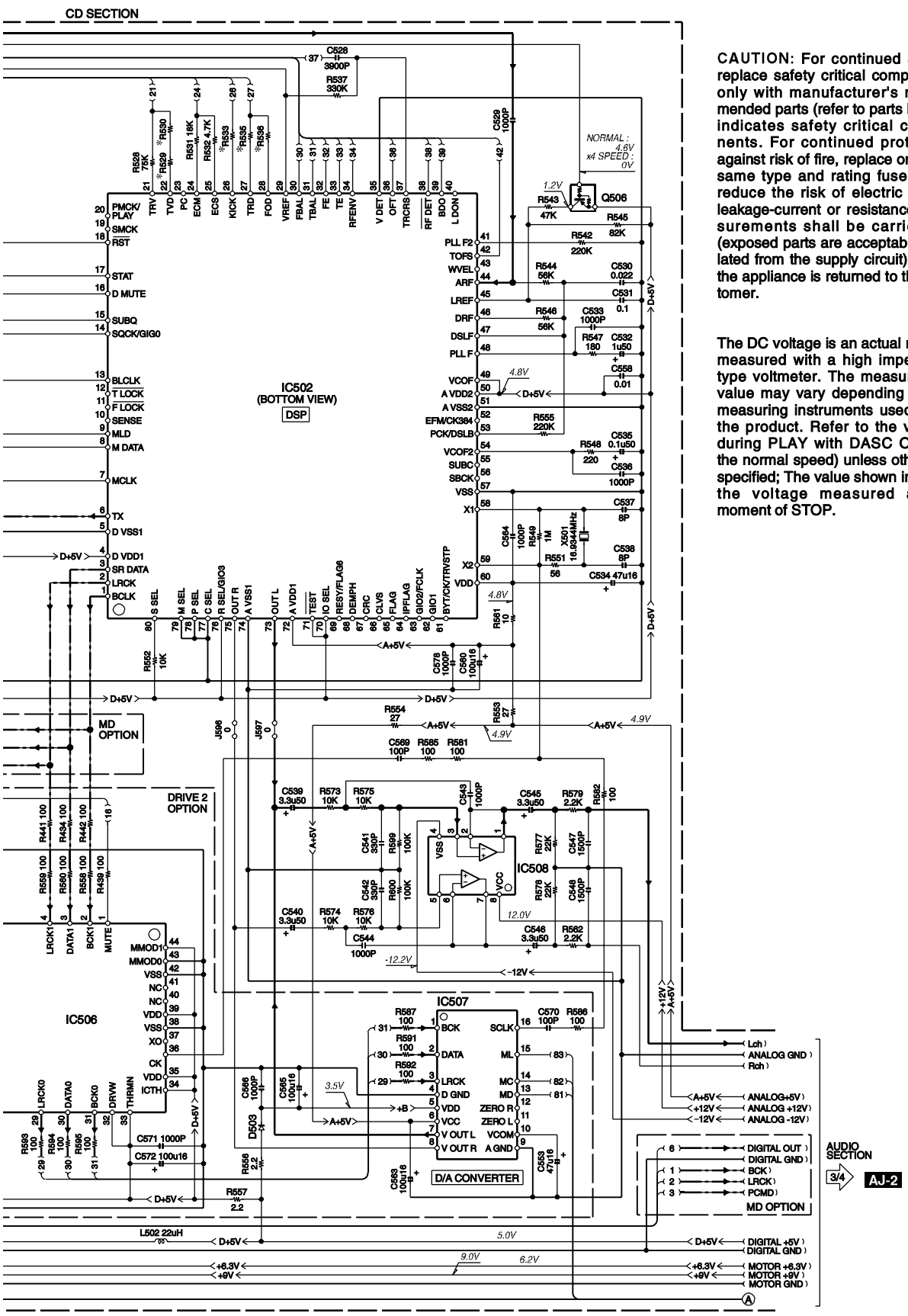
RD-HD5MD/HD7

Y39-4540-10

KENWOOD



MODEL NAME	C614	C615	C617,626	C618	C656	C673	J502	J503	J504	R415,416, 507	R501- 503	R504	R506	R516	R522	R529, 530	R533	R535	R536	R565
RD-HD5MD	100P	220P	560,567	3300P	1000P	220u16	JUMPER	JUMPER	2.7K	YES	6.8K	2.7K	5.6K	68K	100	10K	68K	39K	4.7K	10K
RD-HD7MD	220P	470P	NO	2200P	2200P	1000u16	NO	1.3K	JUMPER	NO	75	75	1.3K	33K	JUMPER	12K	120K	68K	6.2K	5.6K



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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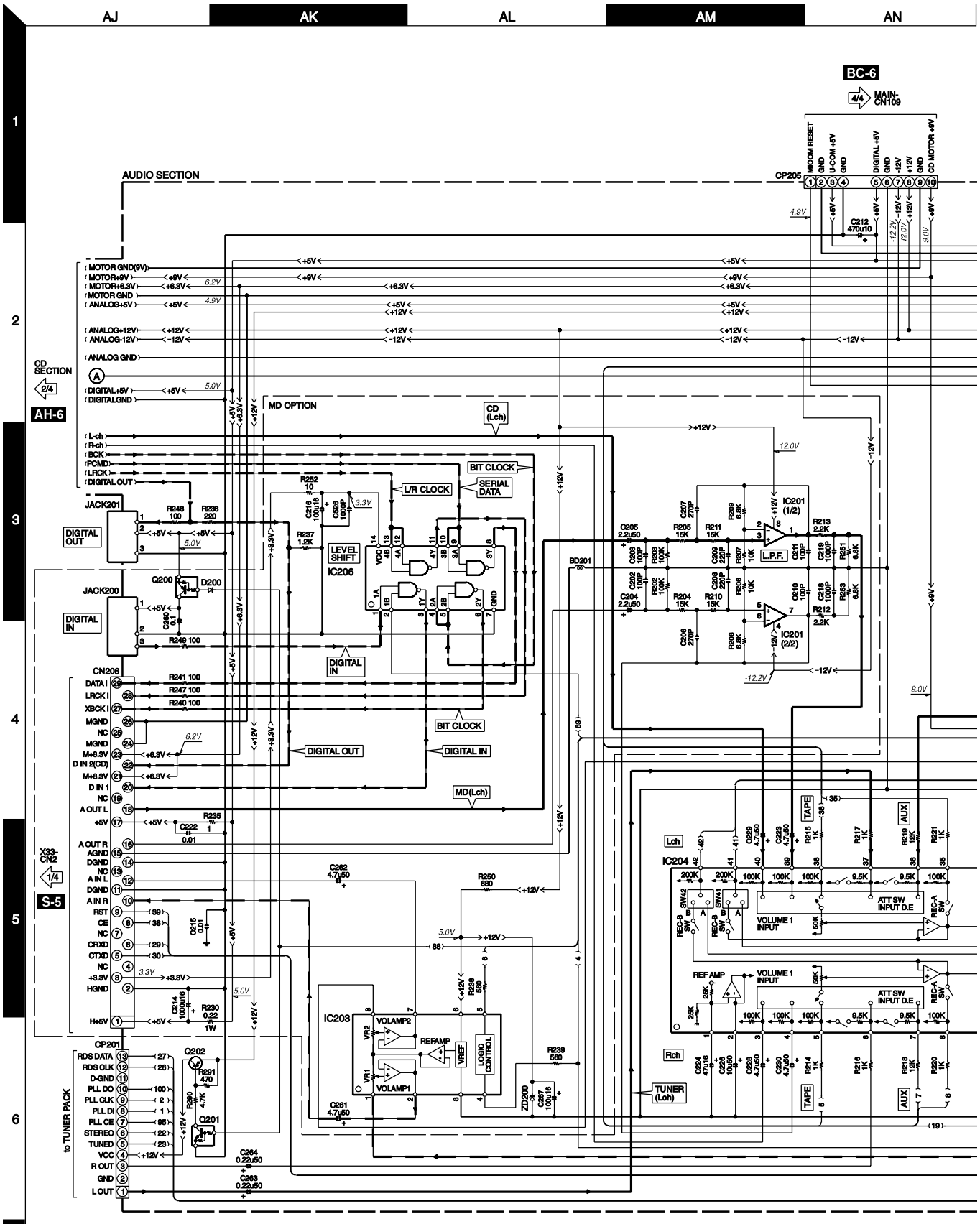
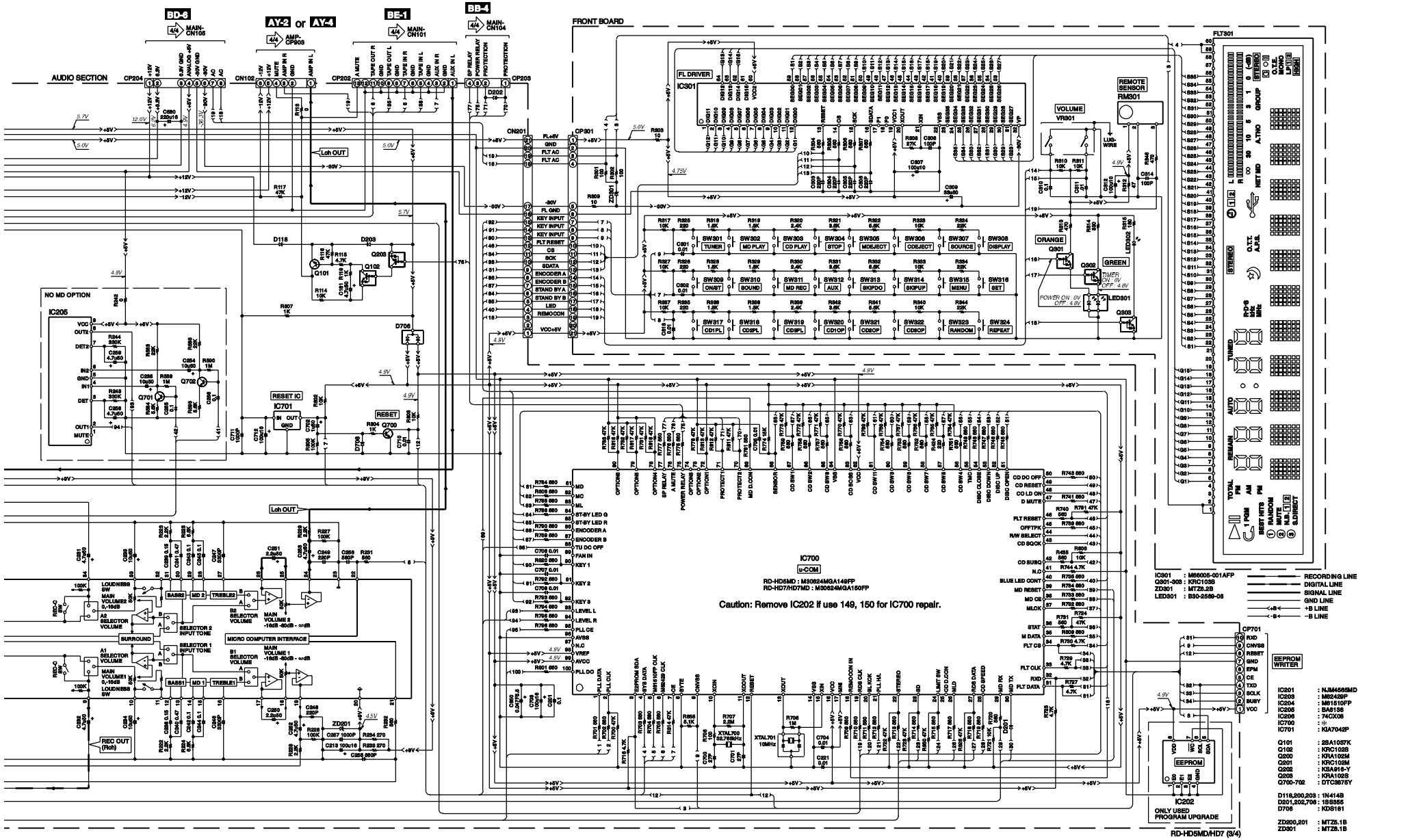
RD-HD5MD/HD7(2/4)

RD-HD5MD/HD7

Y39-4540-10

KENWOOD


AJ
AK
AL
AM
AN
1
2
3
4
5
6
7
BC-6
MAIN-CN109
4/4
CP205
MICOM RESET
GND
U-COM +5V
GND
DIGITAL +5V
GND
-12V
+12V
GND
CD MOTOR +9V
AUDIO SECTION
CD SECTION
2/4
AH-6
MD OPTION
CD (Lch)
BIT CLOCK
L/R CLOCK
SERIAL DATA
LEVEL SHIFT
IC206
DIGITAL IN
DIGITAL OUT
JACK201
JACK200
CN206
IC201 (1/2)
IC201 (2/2)
L.P.F.
BD201
MD(Lch)
IC204
Lch
Rch
TAPE
AUX
VOLUME 1 INPUT
ATT SW INPUT D.E
REC-A SW
REC-B SW
REF AMP
IC203
VOLAMP1
VOLAMP2
REFAMP
VREF
LOGIC CONTROL
TUNER (Lch)
to TUNER PACK
CP201
X33-CN2
1/4
S-5



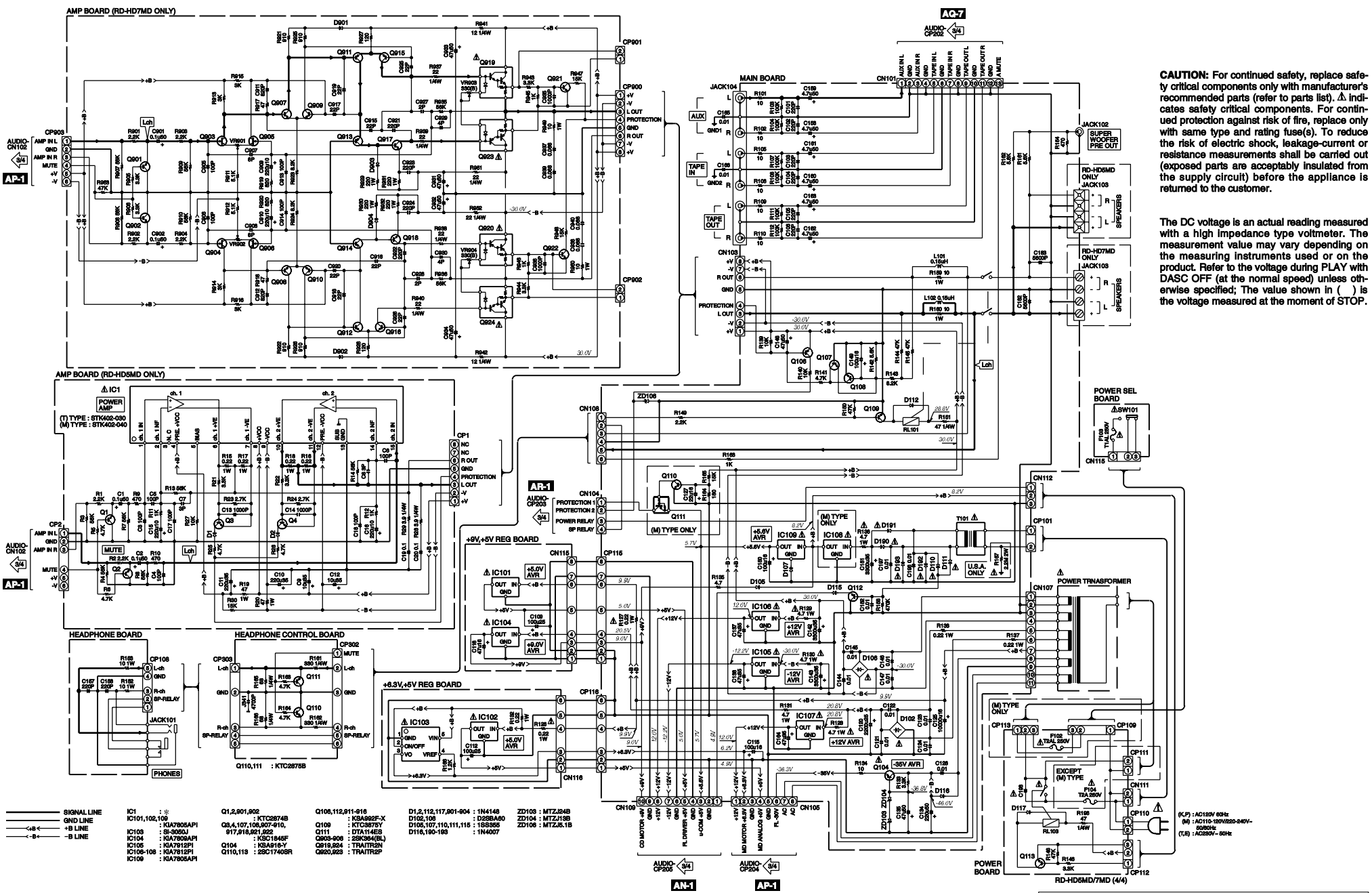
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY with DASC OFF (at the normal speed) unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP.

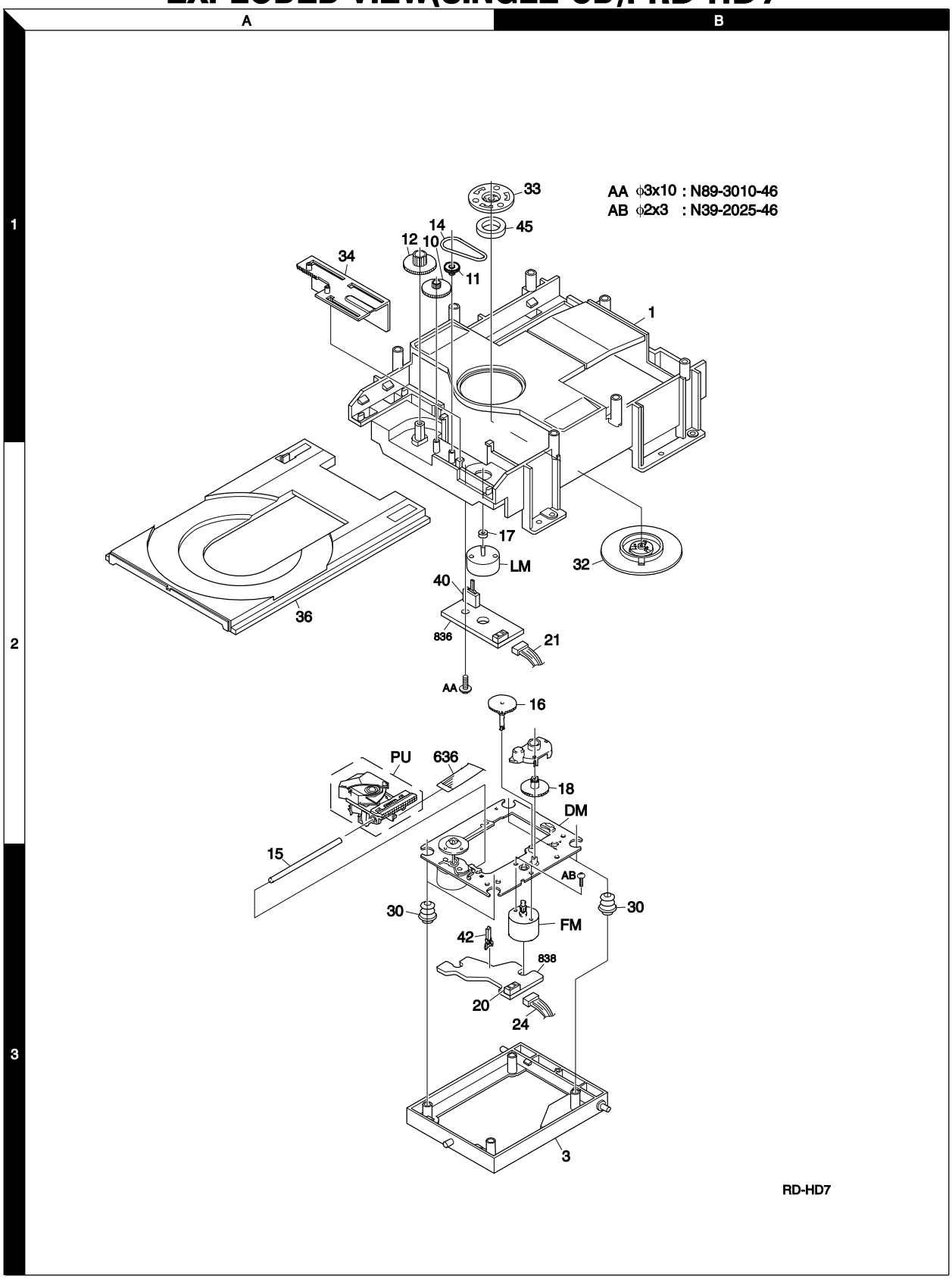
Y39-4540-10

RD-HD5MD/HD7

KENWOOD


AY
AZ
BA
BB
BC
BD
BE
BF
BG
BH
AMP BOARD (RD-HD7MD ONLY)
AMP BOARD (RD-HD5MD ONLY)
MAIN BOARD
POWER SEL BOARD
POWER TRINASFORMER
HEADPHONE BOARD
HEADPHONE CONTROL BOARD
+9V,+5V REG BOARD
+6.3V,+5V REG BOARD
POWER BOARD
RD-HD6MD/7MD (4/4)
SIGNAL LINE
GND LINE
+B LINE
-B LINE
IC1 : ※
IC101,102,109 : KIA7805API
IC103 : SI-3050J
IC104 : KIA7809API
IC105 : KIA7912PI
IC106-108 : KIA7812PI
IC109 : KIA7805API
Q1,2,901,902 : KTC2874B
Q3,4,107,108,907-910, 917,918,921,922 : KSC1846F
Q104 : KSA916-Y
Q110,113 : 2SC1740SR
Q106,112,911-916 : KSA992F-X
Q109 : KTC3875Y
Q111 : DTA114ES
Q903-906 : 2SK364(BL)
Q919,924 : TRAITR2N
Q920,923 : TRAITR2P
D1,2,112,117,901-904 : 1N4148
D102,106 : D2SBA60
D105,107,110,111,115 : 1SS355
D116,190-193 : 1N4007
ZD103 : MTZJ24B
ZD104 : MTZJ13B
ZD106 : MTZJ5.1B
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.
The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY with DASC OFF (at the normal speed) unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP.
RD-HD5MD/HD7
KENWOOD
Y39-4540-10

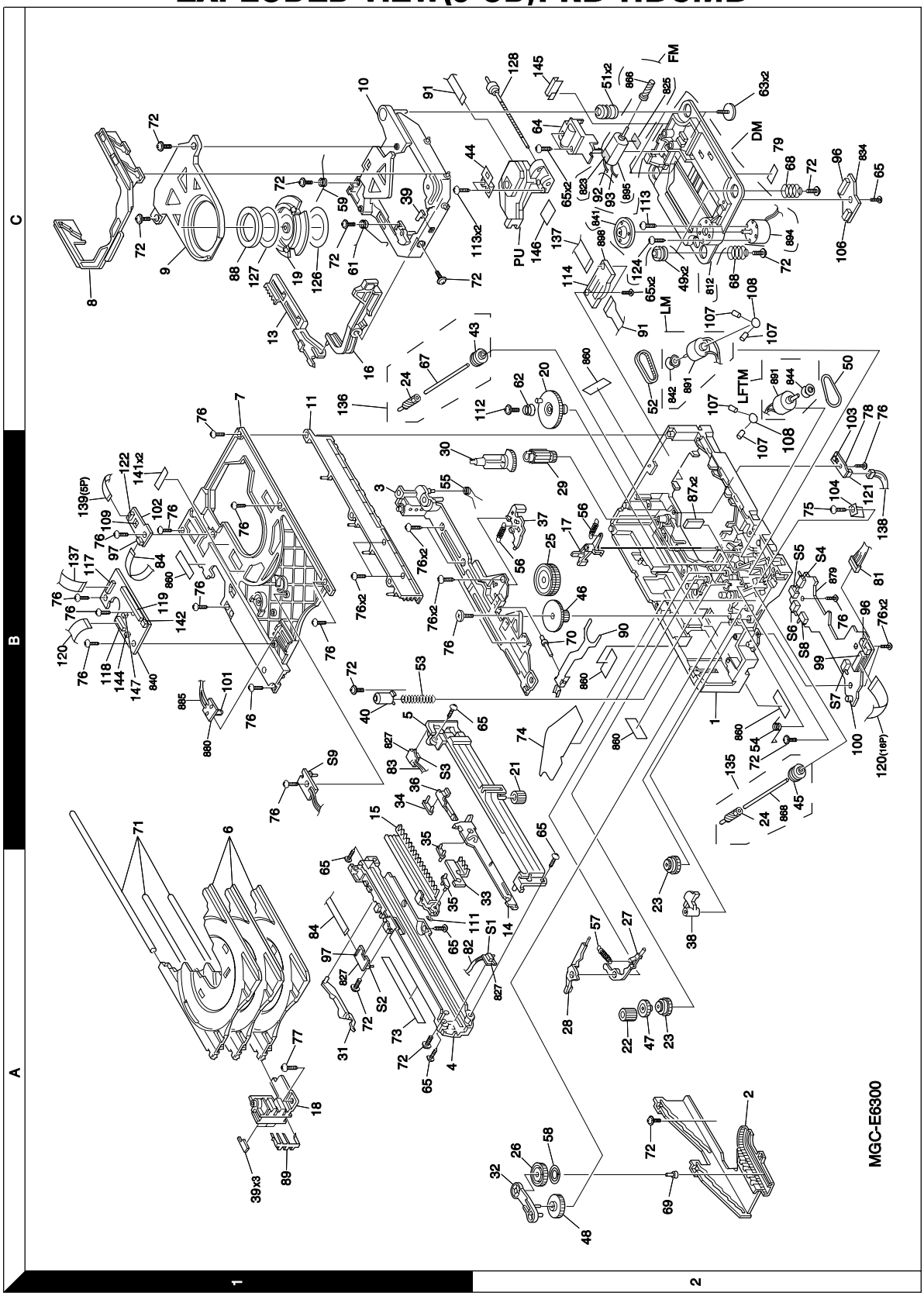
EXPLODED VIEW(SINGLE-CD): RD-HD7



Parts with exploded numbers larger than 700 are not supplied.

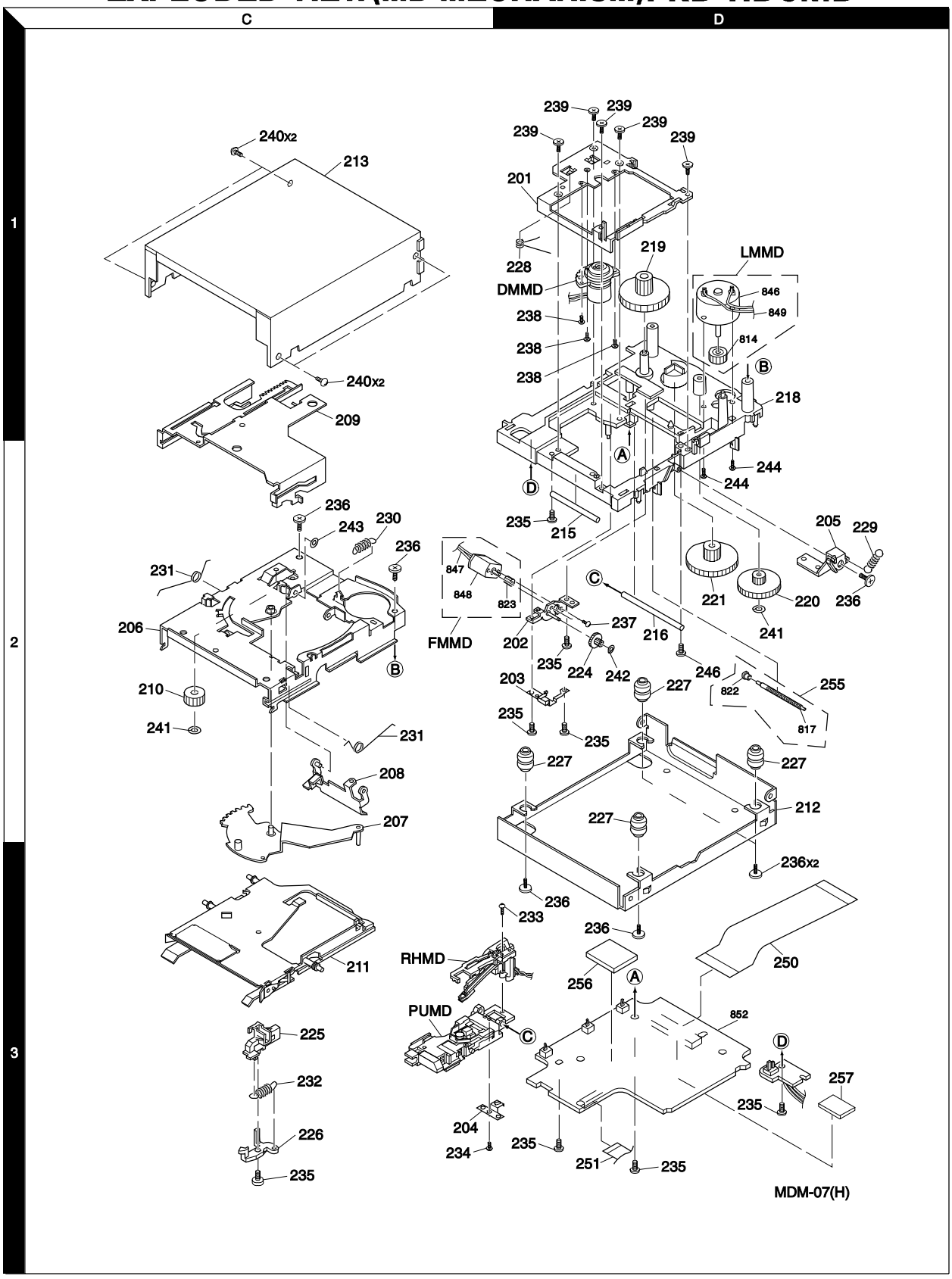
RD-HD5MD

EXPLODED VIEW(3-CD): RD-HD5MD



Parts with exploded numbers larger than 700 are not supplied.

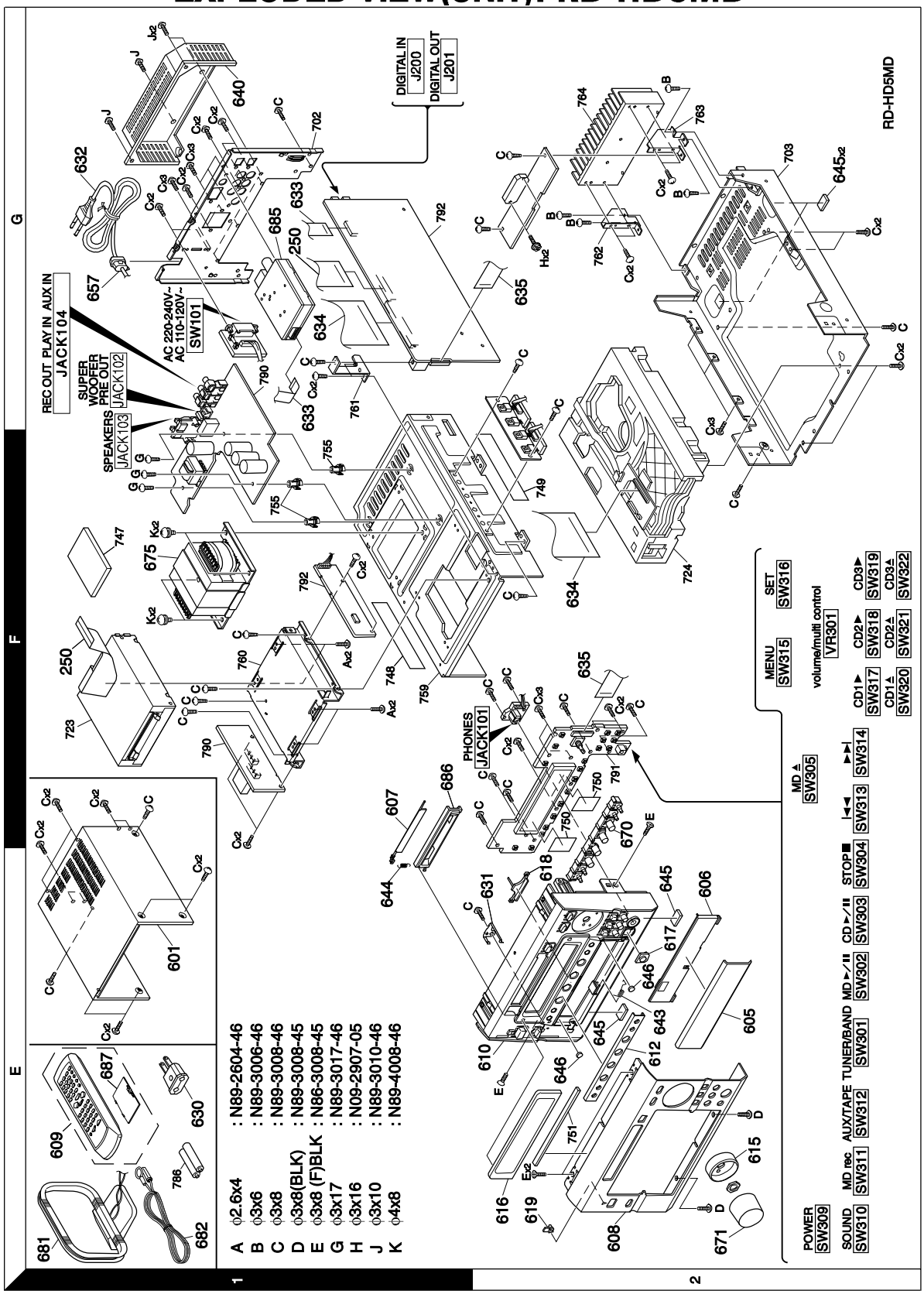
EXPLODED VIEW(MD MECHANISM): RD-HD5MD



Parts with exploded numbers larger than 700 are not supplied.

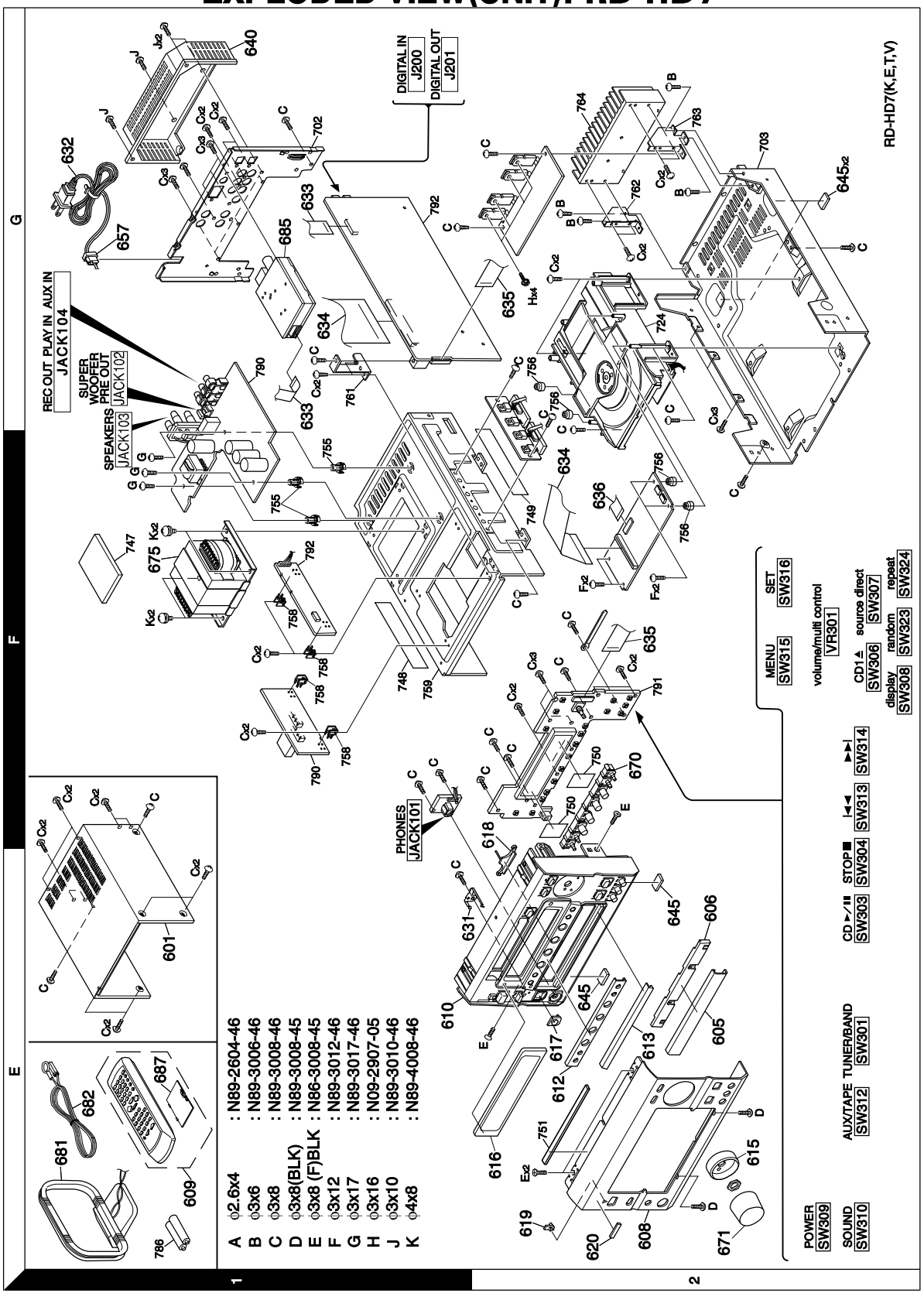
RD-HD5MD

EXPLODED VIEW(UNIT): RD-HD5MD



Parts with exploded numbers larger than 700 are not supplied.

EXPLODED VIEW(UNIT): RD-HD7



Parts with exploded numbers larger than 700 are not supplied.

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Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description		Destination	Remarks
RD-HD5MD/HD7 Page 39&40							
-		✻	B60-5270-08	INSTRUCTION,EN	5707047420030	5M	
-		✻	B60-5271-08	INSTRUCTION,SP	5707047420060	E	
-		✻	B60-5272-08	INSTRUCTION,FR	5707047420080	E	
-		✻	B60-5273-08	INSTRUCTION,IT	5707047420090	E	
-		✻	B60-5274-08	INSTRUCTION,GE	5707047420100	E	
-		✻	B60-5275-08	INSTRUCTION,NE	5707047420110	E	
-		✻	B60-5276-08	INSTRUCTION,EN	5707047420050	7K	
-		✻	B60-5327-08	INSTRUCTION,CH	5707047420070	V	
-		✻	H10-7893-08	CUSHION,SNOW	6230210534000		
-			H25-1601-08	POLY BAG	6337000240010		
-			H25-1602-08	POLY BAG	6330000299010		
-		✻	H50-4603-08	BOX,GIFT	6007210530020	M	
-		✻	H50-4604-08	BOX,GIFT	6007210530010	5	
-		✻	H50-4606-08	BOX,GIFT	6007210530060	7	
-		✻	H50-4607-08	BOX,GIFT	6007210530050	E	
-		✻	H50-4689-08	BOX,GIFT	6007210530040	KV	
-			J19-0306-05	CLAMP,WIRE	4330000310000		
601	1E	✻	A01-3882-08	CABINET	3000210296000	V	
601	1E	✻	A01-3883-08	CABINET	3000210286000	57EKM	
605	2E	✻	A29-1215-08	COVER,TRAY	4317210548000Z	V	
605	2E	✻	A29-1216-08	COVER,TRAY	4317210548010Z	7EK	
605	2E	✻	B03-3932-08	DOOR,3CD	5047210298000Z	5M	
606	2E	✻	A22-1882-08	COVER,TRAY	4310210551000	7EKV	
606	2E	✻	A52-0988-08	DOOR,3CD	5040210271000	5M	
607	1F	✻	A52-0989-08	DOOR,MD	5047210281000	5M	
608	2E	✻	A60-2319-08	PANEL,FRONT	3067210918010Z	5	
608	2E	✻	A60-2321-08	PANEL,FRONT	3067210928010Z	K	
608	2E	✻	A60-2322-08	PANEL,FRONT	3067210928020Z	7E	
608	2E	✻	A60-2327-08	PANEL,FRONT	3067210928030Z	V	
608	2E	✻	A60-2328-08	PANEL,FRONT	3067210918020Z	M	
609	1E	✻	A70-1625-08	REMOCON	8300001530010	5	
609	1E	✻	A70-1626-08	REMOCON	8300001540010	MV	
609	1E	✻	A70-1629-08	REMOCON	8300001570010	7E	
609	1E	✻	A70-1630-08	REMOCON	8300001580010	K	
610	2E	✻	A22-1883-08	PANEL,FRAME	3067210931000	5M	
610	1E	✻	A22-1885-08	PANEL,FRAME	3067210941010	7EK	
610	1E	✻	A22-1886-08	PANEL,FRAME	3067210941020	V	
612	2E	✻	B03-3928-08	DECORATION,8KE	5127210278000Z	5M	
612	2E	✻	B03-3929-08	DECORATION,8KE	5127210278020Z	7EK	
612	2E	✻	B03-3933-08	DECORATION,8KE	5127210278010Z	V	
613	2E	✻	B03-3930-08	DECORATION,CAP	5127210288000Z	V	
613	2E	✻	B03-3931-08	DECORATION,CAP	5127210288010Z	7EK	
615	2E	✻	B07-2665-08	DECORATION,RNG	5127210301000Z		
616	2E	✻	B10-3934-08	WINDOW,DISPLAY	5077210873000	57EKM	
616	2E	✻	B10-3935-08	WINDOW,DISPLAY	5077210873100	V	
617	2E	✻	B11-1573-08	WINDOW,REMOCN	5070210883000		
618	2E,2F	✻	B19-1655-08	DECORATION,LED	5120210313000		
619	2E	✻	B19-1656-08	LENS,STANDBY	3710210353000		
620	2E		B43-0301-04	BADGE	5630210288000	7EKV	
⚠ 630	1E		E03-0115-05	CN.WAFER	L109283004100	M	
631	2E	✻	E29-1696-08	STEEL,PLATE	1000210027000		
⚠ 632	1G		E30-2824-15	CORD ASSY	L068020080010	V	
⚠ 632	1G		E30-7256-08	CORD ASSY	L06800000004C	57	

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia
Y : PX(Far East,Hawaii) T : England E : Europe G : Germany V : China(Shanghai)
Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas ⚠ indicates safety critical components.

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❷

Ref. No	Address	New Parts	Parts No.	Description		Destination	Remarks
⚠ 632	1G		E30-7257-08	CORD ASSY	L06802003001C	K	
⚠ 632	1G		E30-7258-08	CORD ASSY	L06804001101C	EM	
633	1G	✻	E35-3476-08	CABLE,FLAT,13P	L301111130010		
634	2F,1G	✻	E35-3477-08	CABLE,FLAT,39P	L301221390010		
635	2F,2G	✻	E35-3478-08	CABLE,FLAT,21P	L301700210020		
636	1A,2F	✻	E35-3479-08	CABLE,FLAT,16P	L301191160040	7EKV	
640	1G	✻	F07-2006-08	COVER,HEAT SIN	4310210561000		
643	2E	✻	G09-0696-08	SPRING,CD	3720210236000	5M	
644	1E	✻	G09-0697-08	SPRING,MD	3720210246000	5M	
645	2E,2G	✻	G11-2926-08	CUSHION,FOOT	4050210625000		
646	2E	✻	G11-2927-08	CUSHION,DOOR	4050210635000	5M	
657	1G		J42-0355-08	STOPPER,AC COR	4380210002000		
670	2F	✻	K29-8274-08	BUTTON,8KEY	5097211811000Z		
671	2E	✻	K29-8275-08	KNOB,VOL	5087210638000Z	57EKM	
671	2E	✻	K29-8276-08	KNOB,VOL	5087210638010Z	V	
⚠ 675	1F	✻	L07-3253-08	POWER TRANS	8200660550220	M	
⚠ 675	1F	✻	L07-3255-08	POWER TRANS	8200660550250	5	
⚠ 675	1F	✻	L07-3257-08	POWER TRANS	8200660550210	K	
⚠ 675	1F	✻	L07-3258-08	POWER TRANS	8200660550230	7E	
⚠ 675	1F	✻	L07-3262-08	POWER TRANS	8200660550260	V	
681	1E	✻	T90-0903-08	ANTENNA,LOOP	E601016000000		
682	1E	✻	T90-0904-08	ANTENNA,WIRE	E605000030010		
685	1G	✻	W02-2986-08	TUNER,FM/AM	E903011100010	MV	
685	1G	✻	W02-2988-08	TUNER,FM/AM	E903114100020	57E	
685	1G	✻	W02-2989-08	TUNER,FM/AM	E903011000010	K	
686	1F		B07-2664-08	DECORATION,MD	5127210291000	5M	
687	1E		A09-1151-08	BATTERY CASE			
BD201			L92-0523-08	BEAD,COIL CHIP	7611010000020		
SINGLE CD (RD-HD7) Page 36							
1	1B	✻	A10-3600-08	MECHA BASE			
3	3B		A13-3114-08	FRAME FEED			
10	1A		D13-2527-08	GEAR CENTER			
11	1A		D13-1753-08	GEAR PULLEY			
12	1A		D13-1755-08	GEAR LOAD			
14	1A	✻	D16-0801-08	BELT			
15	3A		D10-3606-08	ROD (GUIDE)			
16	2B		D13-1720-08	GEAR (DRIVING)			
17	2B		D15-0395-08	PULLEY MOTOR			
18	2B		D13-2605-08	GEAR (RD)			
20	3A		E40-3264-05	CONNECTOR S6B-PH			
21	2B		E35-2224-08	WIRE HARNES 5P			
24	3B		E35-2223-08	WIRE HARNES 6P			
25	1A,1B		F07-0783-08	RUBBER STOPPER			
30	3A	✻	J02-1554-08	INULATOR(48,GREEN)			
31	3B	✻	J02-1555-08	INULATOR(30,RED)			
32	2B		J11-0829-08	CLAMPER			
33	1B		J21-6409-08	PLATE CLAMPER			
34	1A	✻	A15-0120-08	GUIDE FRAME			
36	2A	✻	J99-0849-08	TRAY			
40	2A		S74-0068-08	SWITCH LEAF			
42	3A		S74-0038-08	LEAF SWITCH			

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia
Y : PX(Far East,Hawaii) T : England E : Europe G : Germany V : China(Shanghai)
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❸

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
45	1B		T99-0579-08	MAGNET CORE		
DM	2B		A11-1223-08	DISC MOTOR ASSY		
FM	3B		T42-0817-08	FEED MOTOR ASSY		
LM	2B	✻	T42-1137-08	MOTOR,DC		
PU	2A		T25-0132-08	PICK UP (KSS-213CH)		
3 CD (RD-HD5MD) Page 28						
1	2B		A10-3352-08	CHASSIS(MAIN)		
2	2A		D10-3719-08	SLIDER(LEFT-L)		
3	1B		A11-1122-08	SUB CHASSIS(L)		
4	1A		J19-5798-08	HOLDER(LOAD-B)		
5	1B		J19-5799-08	HOLDER(LOAD-A)		
6	1B		J99-0593-08	TARY		
7	1C		J19-5800-08	HOLDER(TOP)		
8	1C		D10-3720-08	SLIDER(TU)		
9	1C		J19-5801-08	HOLDER(CLAMP)		
10	1C		A11-1175-08	FRAME(TU-B)		
11	1C		A11-1123-08	SUB CHASSIS(R)		
13	1C		D10-3721-08	SLIDER(CLAMP)		
14	2A		D10-3723-08	SLIDER(LOAD)		
15	1B		D10-3722-08	SLIDER(OPEN)		
16	1C		D10-3928-08	LEVER(CLAMP-B)		
17	2B		D10-3725-08	LEVER(SW4)		
18	1A		J19-5803-08	HOLDER (SHAFT)		
19	1C		J11-0826-08	CLAMPER		
20	2C		D12-0157-08	CAM(TU)		
21	2B		D13-1815-08	GEAR(LOAD-A)		
22	2A		D13-1816-08	GEAR(LOAD-B)		
23	2A		D13-1817-08	GEAR(HELICAL)		
24	1C,2B		D13-1818-08	GEAR(WORM)		
25	2B		D13-1819-08	GEAR(IDLER-B)		
26	2A		D13-1820-08	GEAR(FRICTION)		
27	2A		D10-3726-08	LEVER(SW5)		
28	2A		D10-3727-08	LEVER(SW6)		
29	2B		D13-1821-08	GEAR(TU)		
30	1B		D13-1822-08	GEAR(ZENEBA)		
31	1A		D10-3728-08	LEVER(CLOSE SWITCH)		
32	2A		D10-3729-08	ARM(FRICTION)		
33	2A		D10-3730-08	SILDER(CENTER)		
34	1B		D10-3731-08	LEVER(LIMIT-A)		
35	1A		D10-3732-08	LEVER(LIMIT-B)		
36	1B		D10-3733-08	SILDER(TRAY)		
37	2B		D10-3734-08	SLIDER(SW8)		
38	2A		D10-3735-08	LEVER(SW7)		
39	1A,1C		D10-3736-08	ARM(TRAY LOCK)		
40	1B		J90-0850-08	GUIDE(DISC)		
43	2C		D15-0402-08	PULLEY(TIMING)		
44	2C		D13-1981-08	PLATE(TU)		
45	2B		D15-0404-08	PULLEY(MOTOR)		
46	2B		D13-1823-08	GAER(CENTER-B)		
47	2A		D13-1824-08	GEAR(IDLER)		
48	2A		D13-1825-08	GEAR(CENTER-A)		
49	2C		J02-1133-08	INSULATOR		
50	2C		D16-0718-08	BELT(LIFT)		
51	2C		J02-1190-08	INSULATOR		
52	2C		D16-0719-08	BELT(TIMING)		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
53	1B		G01-4000-08	COMPRESSION SPRING(GUIDE)		
54	2B		G01-4001-08	TORSION SPRING(LOCK)		
55	1B		G01-4188-08	TORSION SPRING(ZENEBA-B)		
56	2B		G01-4003-08	TENSION SPRING(SWITCH)		
57	2A		G01-4004-08	TENSION SPRING(CAM)		
58	2A		G01-4005-08	COMPRESSION SPRING(FRICTION)		
59	1C		G01-4187-04	TORSION SPRING(ASSIST-C)		
61	1C		G01-4185-08	TORSION SPRING(ASSIST-B)		
62	2C		G01-4009-08	COMPRESSION SPRING(CAM)		
63	2C		N09-3373-08	SCREW(B)		
64	2C		F07-1693-08	LEVER(TU)		
65	1A,2B		N09-3374-08	SCREW(TRAY)		
67	1C		D21-1872-08	SHAFT(WORM-A)		
68	2C		G01-4186-08	COPRESSION SPRING(TU-C)		
69	2A		D21-1874-08	SHAFT(FRICTION)		
70	2B		D21-1875-08	SHAFT(LEVER)		
71	1B		D21-1876-08	SHAFT(TRAY)		
72	1C,2C		N09-3375-08	SCREW(A2)		
73	1A		F19-1074-08	COVER(WIRE)		
74	2B		F19-1075-08	COVER-(M)		
75	2B		N09-3377-08	SCREW(SUB-L)		
76	1B,1C		N82-2608-46	SCREW(2.6X8)		
77	1A		N89-2608-45	SCREW(2.6X8)		
78	2C		W02-2654-08	PCB(SENSOR)		
79	2C		H30-0613-08	SOFT TAPE		
81	2B		E35-1836-08	WIRE HARNESS(TU)		
82	1A		E35-1837-08	WIRE HARNESS(SW1)		
83	1B		E35-1838-08	WIRE HARNESS(SW2)		
84	1A,1B		E35-1839-08	4P FFC		
87	2B		G11-2307-08	CUSHION		
88	1C		T99-0544-15	MAGNET		
89	1A		G02-1624-08	FLAT SPRING		
90	2B		D10-3737-08	LEVER(GUIDE)		
91	1C		E35-2522-08	16P FFC(B)		
92	2C		E35-2523-08	LEAD WIRE(A)		
93	2C		E35-2524-08	LEAD WIRE(B)		
96	2B		E40-3264-05	CONNECTOR(S6B-PH)		
97	1A,1B		E40-8107-08	CONNECTOR(04FM-1.0ST)		
99	2B		E40-8109-08	CONNECTOR(16FE-ST)		
100	2B		W02-2602-08	PHOTO TRANSISTOR(RPT-38PT3F)		
101	1B		W02-2603-08	LED(SIR-33ST3)		
102	1B		W02-2653-08	PCB(SENSOR)		
103	2B		W02-2656-08	PHOTO TRANSISTOR(RPM-22PB)		
104	2B		G02-1625-08	LEAF SPRING(WORM)		
106	2C		S68-0077-08	SWITCH(MPU10252MLB0)		
107	2B,2C		F29-0124-08	TUBE		
108	2C		CK45F1H103Z	CERAMIC C 0.01UF		
109	1B		W02-2655-08	LED SENSOR(LED2)		
111	1A		N19-1384-08	WASHER(2.1X5.0X0.25)		
112	2C		N09-3408-08	SCREW		
113	2C		N09-5151-08	SCREW(M1.7X2.2)		
114	2C		E40-8544-08	CONNECTOR		
117	1B		E40-4856-05	FLAT CABLE CONNECTOR(16P)		
118	1B		E40-4903-05	CONNECTOR		
119	1B		E40-4926-05	CONNECTOR		

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120	2B		E35-2526-08	16P FFC(M1)		
121	2B		E40-3246-05	CONNECTOR (CN6)		
122	1B		E40-8178-05	FLAT CABLE CONNECTOR		
124	2C		N09-5152-08	SCREW(1.7X2.5)		
126	1C		G16-0955-08	SPACER(CLAMPER)		
127	1C		J69-0083-04	DOUBLE FACE TAPE		
128	2C		D19-0320-08	SHAFT(LEAD SCREW)ASSY		
135	2B		D15-0405-08	WORM LT ASSY		
136	1C		D15-0406-08	WORM LD ASSY		
137	1B		E35-2527-08	16P FFC(P)		
138	2B		E35-2528-08	WIRE HARNESS(TRAY)		
139	1B		E35-2529-08	5P FFC		
141	1B		G16-0981-08	SPACER(FFC)		
142	1B		E40-3262-05	CONNECTOR		
144	1B		E40-8179-05	CONNECTOR		
145	2C		G02-1754-04	LEAF SPRING		
146	2C		G11-2306-08	SOFT TAPE		
147	1B		E30-3246-05	PIN ASSY (2P)		
S1	2A		S68-0076-08	SWITCH(MPU10371MLB0)		
S2	1A		S68-0078-08	SWITCH(MPU10184MLB1)		
S3	1B		S68-0077-08	SWITCH(MPU10252MLB0)		
S4	2B		S40-1139-05	SWITCH(SPOPB62)		
S5 -7	2B		S68-0077-08	SWITCH(MPU10252MLB0)		
S8	2B		S40-1139-05	SWITCH(SPOPB62)		
S9	1B		S68-0078-08	SWITCH(MPU10184MLB1)		
DM	2C		A11-1184-08	SUB CHASSIS ASSY		
FM	2C		T42-0981-08	FEED MOTOR ASSY		
LFTM	2C		T42-0887-08	LD MOTOR ASSY		
LM	2C		T42-0886-08	LT MOTOR ASSY		
PU	2C		T25-0127-05	PICKUP		
MD MECHANISM (RD-HD5MD) Page 29						
201	1D		A10-3531-02	CHASSIS		
202	2D		J19-6125-04	BRACKET ASSY		
203	2D		G02-1716-04	LEAF SPRING		
204	3C		D13-2510-03	RACK(GEAR)		
205	2D		D10-3958-03	LEVER		
206	2C		A11-1189-03	SUB CHASSIS ASSY		
207	2C		D10-3959-04	ARM ASSY		
208	2C		D10-3961-04	LEVER ASSY		
209	1C		D10-3963-02	SLIDER		
210	2C		D13-2511-04	GEAR		
211	3C		J19-6127-03	HOLD ASSY		
212	2D		A15-0106-02	FRAME		
213	1C		F11-0503-02	SHIELD CASE		
215	2D		D10-3982-04	ROD		
216	2D		D10-3957-04	ROD		
218	1D		A11-1187-04	SUB CHASSIS ASSY		
219	1D		D13-2504-04	GEAR		
220	2D		D13-2505-04	GEAR		
221	2D		D13-2516-04	GEAR		
224	2D		D13-2509-04	GEAR		
225	3C		D10-3964-03	SLIDER		
226	3C		D10-3965-03	ARM		
227	2D,3D		J02-1492-04	INSULATOR		

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228	1D		G01-4230-04	TORSION SPRING			
229	2D		G01-4231-04	TENSION SPRING			
230	2C		G01-4235-04	TENSION SPRING			
231	2C		G01-4233-04	TORSION SPRING			
232	3C		G01-4234-04	TENSION SPRING			
233	3D		N39-1745-46	SCREW			
234	3C		N09-3104-05	SCREW	(M1.7X1.8)		
235	2D,3C		N09-3279-05	SCREW	(1.7X3,B)		
236	2C,2D		N09-5113-05	SCREW			
237	2D		N09-5229-05	SCREW	(1.4X1.8 PWR)		
238	1D		N09-5230-05	SCREW	(1.4X2.2,S)		
239	1D		N09-5231-05	SCREW	(1.7X4,B)		
240	1C		N86-2004-46	SCREW			
241	2C,2D		N19-0366-04	FLAT SCREW			
242	2D		N19-1511-04	FLAT SCREW			
243	2C		N19-1171-04	FLAT SCREW			
244	2D		N09-5285-05	SCREW	(M1,7X4.5,FLAT)		
246	2D		N09-5402-05	SCREW	(1.7X4X5.5)		
250	3D,2F	✻	E35-3462-05	FLAT CABLE			
251	3D		E35-2348-05	FLAT CABLE			
255	2D		D13-2506-04	GEAR ASSY			
256	3D		G16-1236-04	SHEET			
257	3D		G16-1263-04	SHEET			
DMMD	1D		T42-0983-05	MOTOR ASSY			
FMMD	2C		T42-0985-04	MOTOR ASSY			
LMMD	1D		T42-0984-04	MOTOR ASSY			
PUMD	3C		T25-0123-05	PICKUP			
RHMD	3C		T30-0031-05	RECORDING HEAD			
ELECTRONIS PARTS							
FLT301		✻	16-BT-103GNK	DISPLAY,FLT	K530161030010		
LED301			B30-2569-08	LED,ROUND	K500032500010		
LED302		✻	B30-2655-08	LED,ROUND	K500030000010		V
LED302		✻	B30-2656-08	LED,ROUND	K500036000030		57EKM
C1,2			CE04LW1H0R1M	ELECTRO	0.1UF	50WV	5M
C3-6			CC45FSL1H101J	CERAMIC	100PF	J	5M
C7,8			CC45FSL1H030C	CERAMIC	3.0PF	C	5M
C9			CE04LW1V100M	ELECTRO	10UF	35WV	5M
C10,11			CE04LW1V221M	ELECTRO	220UF	35WV	5M
C12			CE04LW1V100M	ELECTRO	10UF	35WV	5M
C13,14			CK45FB1H102K	CERAMIC	1000PF	K	5M
C15,16			CE04LW1A221M	ELECTRO	220UF	10WV	5M
C17,18			CC45FSL1H101J	CERAMIC	100PF	J	5M
C19,20			CQ93FMG1H104K	MYLAR	0.10UF	K	5M
C101-106			CK73GB1H221K	CHIP C	220PF	K	
C109			CE04LW1E101M	ELECTRO	100UF	25WV	
C112			CE04LW1E101M	ELECTRO	100UF	25WV	
C115			CE04LW1C101M	ELECTRO	100UF	16WV	
C118			CE04LW1C470M	ELECTRO	47UF	16WV	
C120			CE04LW1E222M	ELECTRO	2200UF	25WV	
C121-124			CK45FB2H103Z	CERAMIC	0.010UF	Z	
C125		✻	C92-0264-08	ELECTRO	10000UF	16WV	
C126			CK45FB2H103Z	CERAMIC	0.010UF	Z	
C127			CE04LW1C220M	ELECTRO	22UF	16WV	
C134			CE04LW1H221M	ELECTRO	220UF	50WV	

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C135			CE04LW1H470M	ELECTRO	47UF	50WV	5	
C137,138			CE04LW1V470M	ELECTRO	47UF	35WV		
C142,143			C90-1616-05	ELECTRO	3300UF	35WV		
C144-147			CK45FB2H103Z	CERAMIC	0.010UF	Z		
C148			CE04LW1H470M	ELECTRO	47UF	50WV		
C149,150			CE04LW1C101M	ELECTRO	100UF	16WV		
C151			CE04LW1C332M	ELECTRO	3300UF	16WV	57EKV	
C151			CE04LW1V332M	ELECTRO	3300UF	35WV	M	
C152			CK73GB1H103K	CHIP C	0.010UF	K		
C158-163			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C164			CE04LW1V470M	ELECTRO	47UF	35WV		
C165,166			CK73GB1H103K	CHIP C	0.010UF	K		
C181			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C182,183			CK45FB1H472K	CERAMIC	4700PF	K	M	
C182,183			CK45FB1H562K	CERAMIC	5600PF	K	57EKV	
C196,197			CK45FB2H103Z	CERAMIC	0.010UF	Z		
⚠ C198		*	C91-1649-08	CERAMIC	4700PF	K		
C201			CK73GB1H104K	CHIP C	0.10UF	K		
C202,203			CC73GCH1H101J	CHIP C	100PF	J	5M	
C204,205			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	5M	
C206,207			CK73GB1H271K	CHIP C	270PF	K	5M	
C208,209			CK73GB1H221K	CHIP C	220PF	K	5M	
C210,211			CC73GCH1H101J	CHIP C	100PF	J	5M	
C212			CE04LW1A471M	ELECTRO	470UF	10WV		
C213			CE04LW1C101M	ELECTRO	100UF	16WV		
C214			CE04LW1C102M	ELECTRO	1000UF	16WV	5M	
C215			CK73GB1H103K	CHIP C	0.010UF	K	5M	
C216,217			CE04LW1C101M	ELECTRO	100UF	16WV	5M	
C218,219			CK73GB1H102K	CHIP C	1000PF	K	5M	
C220			CK73GB1H103K	CHIP C	0.010UF	K	5M	
C221,222			CK73GB1H103K	CHIP C	0.010UF	K		
C223			CE04LW1H4R7M	ELECTRO	4.7UF	50WV	5M	
C224			CE04LW1C470M	ELECTRO	47UF	16WV		
C225			CK73GB1H223K	CHIP C	0.022UF	K		
C226			CE04LW1H100M	ELECTRO	10UF	50WV		
C228,229			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C230-232			CE04LW1H4R7M	ELECTRO	4.7UF	50WV	5M	
C233,234			CE04LW1H100M	ELECTRO	10UF	50WV		
C238,239			CK73GB1A154K	CHIP C	0.15UF	K		
C240,241			CK73GB1A474K	CHIP C	0.47UF	K		
C242-245			CK73GB1H104K	CHIP C	0.10UF	K		
C246,247			CK73GB1H332K	CHIP C	3300PF	K		
C248,249			CK73GB1H221K	CHIP C	220PF	K		
C250,251			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C252,253			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C254			CE04LW1H100M	ELECTRO	10UF	50WV	7EKV	
C255,256			CK73GB1H561J	CHIP C	560PF	J		
C257			CK73GB1H102K	CHIP C	1000PF	K		
C258,259			CE04LW1H4R7M	ELECTRO	4.7UF	50WV	7EKV	
C260			CK73GB1H104K	CHIP C	0.10UF	K	5M	
C261,262			CE04LW1H4R7M	ELECTRO	4.7UF	50WV	5M	
C263,264			CE04LW1HR22M	ELECTRO	0.22UF	50WV		
C265,266			CK73GB1H104K	CHIP C	0.10UF	K	7EKV	
C267			CE04LW1C101M	ELECTRO	100UF	16WV	5M	
C301,302			CK73GB1H103K	CHIP C	0.010UF	K		

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C303-306			CK73GB1H221K	CHIP C	220PF	K		
C307			CE04LW1A101M	ELECTRO	100UF	10WV		
C308			CC73GCH1H101J	CHIP C	100PF	J		
C309			CE04LW1H330M	ELECTRO	33UF	50WV		
C310,311			CK73GB1H104K	CHIP C	0.10UF	K		
C312			CE04LW1A101M	ELECTRO	100UF	10WV		
C313			CK73GB1H103K	CHIP C	0.010UF	K		
C314			CC73GCH1H101J	CHIP C	100PF	J		
C316			CK73GB1H223K	CHIP C	0.022UF	K	5M	
C317			CK73GB1H223K	CHIP C	0.022UF	K		
C401,402			CK73GB1H221K	CHIP C	220PF	K		
C403			CC73GCH1H101J	CHIP C	100PF	J		
C404,405			CK73GB1H221K	CHIP C	220PF	K		
C406			CK73GB1H221K	CHIP C	220PF	K	7EKV	
C501			CE04LW1C470M	ELECTRO	47UF	16WV		
C502			CE04LW1H0R1M	ELECTRO	0.1UF	50WV		
C503			CK73GB1H104K	CHIP C	0.10UF	K		
C504			CC73GCH1H080D	CHIP C	8.0PF	D		
C505			CC73GCH1H820J	CHIP C	82PF	J		
C506			CC73GCH1H150J	CHIP C	15PF	J		
C507			CK73GB1H104K	CHIP C	0.10UF	K		
C508,509			CK73GB1H562K	CHIP C	5600PF	K		
C510			CK73GB1H681K	CHIP C	680PF	K		
C511			CK73GB1H473K	CHIP C	0.047UF	K		
C512,513			CK73GB1H104K	CHIP C	0.10UF	K		
C514			CC73GCH1H101J	CHIP C	100PF	J	5M	
C514			CK73GB1H221K	CHIP C	220PF	K	7EKV	
C515			CK73GB1H221K	CHIP C	220PF	K	5M	
C515			CK73GB1H471K	CHIP C	470PF	K	7EKV	
C516			CK73GB1H222K	CHIP C	2200PF	K		
C517			CK73GB1H103K	CHIP C	0.010UF	K	5M	
C518			CK73GB1H332K	CHIP C	3300PF	K		
C519			CE04LW1C101M	ELECTRO	100UF	16WV		
C520			CK73GB1H102K	CHIP C	1000PF	K		
C521			CE04LW1A471M	ELECTRO	470UF	10WV		
C522			CK45FB1H222K	CERAMIC	2200PF	K		
C523			CK73GB1H103K	CHIP C	0.010UF	K		
C524			CE04LW1C470M	ELECTRO	47UF	16WV		
C525			CC73GCH1H020C	CHIP C	2.0PF	C		
C526			CK73GB1H102K	CHIP C	1000PF	K	5M	
C527			CK73GB1H102K	CHIP C	1000PF	K		
C528			CK73GB1H392K	CHIP C	3900PF	K		
C529			CK73GB1H102K	CHIP C	1000PF	K		
C530			CK73GB1H223K	CHIP C	0.022UF	K		
C531			CK73GB1H104K	CHIP C	0.10UF	K		
C532			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C533			CK73GB1H102K	CHIP C	1000PF	K		
C534			CE04LW1C470M	ELECTRO	47UF	16WV		
C535			CE04LW1H0R1M	ELECTRO	0.1UF	50WV		
C536			CK73GB1H102K	CHIP C	1000PF	K		
C537,538			CC73GCH1H080D	CHIP C	8.0PF	D		
C539,540			CE04LW1H3R3M	ELECTRO	3.3UF	50WV		
C541,542			CK73GB1H331J	CHIP C	330PF	J		
C543,544			CK73GB1H102K	CHIP C	1000PF	K		
C545,546			CE04LW1H3R3M	ELECTRO	3.3UF	50WV		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C547,548			CK73GB1H152K	CHIP C	1500PF	K		
C549			CE04LW1C101M	ELECTRO	100UF	16WV		
C550			CK73GB1H104K	CHIP C	0.10UF	K		
C551			CE04LW1C101M	ELECTRO	100UF	16WV	5M	
C552			CK73GB1H104K	CHIP C	0.10UF	K	5M	
C553			CE04LW1C470M	ELECTRO	47UF	16WV	7EKV	
C554			CK73GB1H102K	CHIP C	1000PF	K	5M	
C554			CK73GB1H152K	CHIP C	1500PF	K	7EKV	
C555			CK73GB1H103K	CHIP C	0.010UF	K		
C556			CK73GB1H102K	CHIP C	1000PF	K	5M	
C556			CK73GB1H152K	CHIP C	1500PF	K	7EKV	
C557,558			CK73GB1H103K	CHIP C	0.010UF	K		
C559			CK73GB1A474K	CHIP C	0.47UF	K	5M	
C560			CE04LW1C101M	ELECTRO	100UF	16WV		
C561			CE04LW1C221M	ELECTRO	220UF	16WV		
C562			CK73GB1H102K	CHIP C	1000PF	K		
C563			CE04LW1C101M	ELECTRO	100UF	16WV	7EKV	
C564			CK73GB1H102K	CHIP C	1000PF	K		
C565			CE04LW1C101M	ELECTRO	100UF	16WV	7EKV	
C566			CK73GB1H102K	CHIP C	1000PF	K	7EKV	
C567			CK73GB1A474K	CHIP C	0.47UF	K	5M	
C568			CK73GB1H223K	CHIP C	0.022UF	K	7EKV	
C569,570			CC73GCH1H101J	CHIP C	100PF	J	7EKV	
C571			CK73GB1H102K	CHIP C	1000PF	K	7EKV	
C572			CE04LW1C101M	ELECTRO	100UF	16WV	7EKV	
C573			CE04LW1C221M	ELECTRO	220UF	16WV		
C574			CK73GB1H102K	CHIP C	1000PF	K		
C575			CE04LW1C221M	ELECTRO	220UF	16WV		
C578			CK73GB1H102K	CHIP C	1000PF	K		
C579			CK73GB1H104K	CHIP C	0.10UF	K		
C580			CE04LW1C221M	ELECTRO	220UF	16WV		
C581			CK73GB1H102K	CHIP C	1000PF	K		
C700,701			CC73GCH1H270J	CHIP C	27PF	J		
C702			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C703			CE04LW1C101M	ELECTRO	100UF	16WV		
C704			CK73GB1H103K	CHIP C	0.010UF	K		
C705			CK73GB1H103K	CHIP C	0.010UF	K	5M	
C706-708			CK73GB1H103K	CHIP C	0.010UF	K		
C710			CK73GB1H103K	CHIP C	0.010UF	K		
C711			CK73GB1H102K	CHIP C	1000PF	K		
C712			CE04LW1C101M	ELECTRO	100UF	16WV		
C850		✻	C90-5778-08	BACKUP	0.047F	5.5V		
C901,902			CE04LW1H0R1M	ELECTRO	0.1UF	50WV	7EKV	
C905,906			CC45FSL1H101J	CERAMIC	100PF	J	7EKV	
C907,908			CC45FSL1H080D	CERAMIC	8.0PF	D	7EKV	
C909,910			CE04LW1A221M	ELECTRO	220UF	10WV	7EKV	
C911,912			CK45FB1H821K	CERAMIC	820PF	K	7EKV	
C913,914			CC45FSL1H101J	CERAMIC	100PF	J	7EKV	
C915-917			CC45FSL1H220J	CERAMIC	22PF	J	7EKV	
C918,919			CC45FCH2H220J	CERAMIC	22PF	J	7EKV	
C920			CC45FSL1H220J	CERAMIC	22PF	J	7EKV	
C921-924			CC45FSL1H221J	CERAMIC	220PF	J	7EKV	
C925,926			CC45FCH2H220J	CERAMIC	22PF	J	7EKV	
C927,928			CC45FSL1H020C	CERAMIC	2.0PF	C	7EKV	
C929,930			CC45FCH1H040C	CERAMIC	4.0PF	C	7EKV	

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C931-934			CE04LW1H470M	ELECTRO	47UF	50WV	7EKV	
C935,936			CK45FB1H102K	CERAMIC	1000PF	K	7EKV	
C937-940			CQ93FMG1H683J	MYLAR	0.068UF	J	7EKV	
J341			CK45FB1H472K	CERAMIC	4700PF	K		
CN201		✻	E41-0916-08	CN.FPC 1.25MM	L131524922120			
CN206		✻	E41-0913-08	CN.FPC 1.0MM	L130623202920		5M	
CN502		✻	E41-0914-08	CN.FPC 1.25MM	L131103900010			
CP201		✻	E41-0917-08	CN.FPC 1.25MM	L131837001310			
CP301		✻	E41-0918-08	CN.FPC 1.25MM	L131837002110			
CP505		✻	E41-0915-08	CN.FPC 1.25MM	L131113900010		7EKV	
CP506		✻	E41-0912-08	CN.FPC 1.0MM	L130623201620		7EKV	
JACK101		✻	E11-0969-08	JACK,D3.5	G401035180040			
JACK102			E63-1181-08	TER,RCA 1PIN	G600010003020			
JACK103		✻	E21-0041-08	SW,PUSH BLOCK	G040404204220		5M	
JACK103		✻	E21-0042-08	TER,BOARD SCREW	G612041037310		7EKV	
JACK104			E63-0187-08	TER,RCA 6PIN	G603060046020			
⚠ F102			F04-2025-05	FUSE GLASS TUBE	N751222001110		M	
⚠ F103			F04-1026-05	FUSE GLASS TUBE	N751221001110		M	
⚠ F104			F04-2025-05	FUSE GLASS TUBE	N751222001110		K	
⚠ F104			F06-1222-05	FUSE GLASS TUBE	N751221251110		57EV	
L101,102			L39-1303-08	COIL,FILTER-IND	D330R15000000			
L501			L33-0574-08	COIL,FILTER-IND	D330100700520			
L502		✻	L40-2201-05	COIL,FILTER-IND	D330220001020			
⚠ T101		✻	L07-3263-08	POWER TRANS	8200280150090		KM	
⚠ T101		✻	L07-3264-08	POWER TRANS	8200280150100		57E	
⚠ T101		✻	L07-3265-08	POWER TRANS	8200280150110		V	
X501		✻	L77-2413-08	CRYSTAL	E800169344510			
XTAL700			L77-2318-08	CRYSTAL	E800327680050			
XTAL701			L78-0294-05	RESONATOR,CERAM	E830100000050			
D113,114			RK73GB1J000J	CHIP R	0	J 1/16W		
J100			RK73EB2B000J	CHIP R	0	J 1/8W	5M	
J136,137			RK73EB2B000J	CHIP R	0	J 1/8W		
J142-150			RK73EB2B000J	CHIP R	0	J 1/8W		
J153-156			RK73EB2B000J	CHIP R	0	J 1/8W		
J164			RK73EB2B000J	CHIP R	0	J 1/8W		
J166			RK73EB2B000J	CHIP R	0	J 1/8W		
J316			RK73EB2B000J	CHIP R	0	J 1/8W		
J321-323			RK73EB2B000J	CHIP R	0	J 1/8W		
J325-327			RK73EB2B000J	CHIP R	0	J 1/8W		
J328			RK73EB2B000J	CHIP R	0	J 1/8W	7EKV	
J329			RK73EB2B000J	CHIP R	0	J 1/8W	5M	
J330-337			RK73EB2B000J	CHIP R	0	J 1/8W		
J338			RK73EB2B000J	CHIP R	0	J 1/8W	5M	
J339			RK73EB2B000J	CHIP R	0	J 1/8W	7EKV	
J340			RK73EB2B000J	CHIP R	0	J 1/8W		
J342			RK73EB2B000J	CHIP R	0	J 1/8W		
J343			RK73EB2B000J	CHIP R	0	J 1/8W	7EKV	
J344,345			RK73EB2B000J	CHIP R	0	J 1/8W		
J346			RK73EB2B000J	CHIP R	0	J 1/8W	7EKV	
J347,348			RK73EB2B000J	CHIP R	0	J 1/8W		
J351			RK73EB2B000J	CHIP R	0	J 1/8W	7EKV	
J353			RK73EB2B000J	CHIP R	0	J 1/8W	5M	
J501			RK73GB1J000J	CHIP R	0	J 1/16W		
J502,503			RK73GB1J000J	CHIP R	0	J 1/16W	5M	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
J503			RK73GB1J132J	CHIP R	1.3K	J	1/16W	7EKV	
J504			RK73GB1J000J	CHIP R	0	J	1/16W	7EKV	
J504			RK73GB1J272J	CHIP R	2.7K	J	1/16W	5M	
J505-507			RK73GB1J000J	CHIP R	0	J	1/16W		
J510,511			RK73GB1J000J	CHIP R	0	J	1/16W	5M	
J512,513			RK73GB1J000J	CHIP R	0	J	1/16W		
J515-520			RK73GB1J000J	CHIP R	0	J	1/16W		
R15-18			R92-1979-08	METAL R	0.22	J	1W	5M	
R19,20			RS14KB3A470J	FL-PROOF RS	47	J	1W	5M	
R28,29			RS14KB3A3R9J	FL-PROOF RS	3.9	J	1W	5M	
R101,102			RK73GB1J100J	CHIP R	10	J	1/16W		
R103,104			RK73GB1J104J	CHIP R	100K	J	1/16W		
R105,106			RK73GB1J100J	CHIP R	10	J	1/16W		
R107,108			RK73GB1J104J	CHIP R	100K	J	1/16W		
R109,110			RK73GB1J100J	CHIP R	10	J	1/16W		
R111,112			RK73GB1J104J	CHIP R	100K	J	1/16W		
R113			RK73GB1J000J	CHIP R	0	J	1/16W		
R114			RK73GB1J103J	CHIP R	10K	J	1/16W		
R115			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R116			RK73GB1J473J	CHIP R	47K	J	1/16W		
R118			JUMPER	CN,WIRE 1P	L045084006040				
R119			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
⚠ R126,127			R92-1979-08	METAL R	0.22	J	1W		
⚠ R128-131			RS14KB3A4R7J	FL-PROOF RS	4.7	J	1W		
R132			R92-1979-08	METAL R	0.22	J	1W		
R133			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R136			JUMPER	CN,WIRE 1P	L045084006040			M	
⚠ R136			RS14KB3A4R7J	FL-PROOF RS	4.7	J	1W	57EKV	
R137,138			R92-1979-08	METAL R	0.22	J	1W		
R139,140			RK73GB1J103J	CHIP R	10K	J	1/16W		
R141			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R142			RK73GB1J562J	CHIP R	5.6K	J	1/16W		
R143			RK73GB1J822J	CHIP R	8.2K	J	1/16W		
R144,145			RK73GB1J473J	CHIP R	47K	J	1/16W		
R147			JUMPER	CN,WIRE 1P	L045084006040				
R150			RK73GB1J473J	CHIP R	47K	J	1/16W		
R151			RN14BK2E4700F	RN	470	F	1/4W		
R154			RK73GB1J471J	CHIP R	470	J	1/16W		
R158			RK73GB1J474J	CHIP R	470K	J	1/16W		
R159,160			RS14KB3A100J	FL-PROOF RS	10	J	1W		
R161			RK73GB1J562J	CHIP R	5.6K	J	1/16W		
R162			RK73GB1J562J	CHIP R	5.6K	J	1/16W		
R163			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R166			RK73GB1J122J	CHIP R	1.2K	J	1/16W		
⚠ R167		✻	R92-4591-08	RN	2.2M	J	1/4W	K	
R196			RN14BK2C4700F	RN	470	F	1/6W	57EKV	
R196			RN14BK2E0010F	RN	1	F	1/4W	M	
R202,203			RK73GB1J104J	CHIP R	100K	J	1/16W	5M	
R204,205			RK73GB1J153J	CHIP R	15K	J	1/16W	5M	
R206,207			RK73GB1J103J	CHIP R	10K	J	1/16W	5M	
R208,209			RK73GB1J682J	CHIP R	6.8K	J	1/16W	5M	
R210,211			RK73GB1J153J	CHIP R	15K	J	1/16W	5M	
R212,213			RK73GB1J222J	CHIP R	2.2K	J	1/16W	5M	
R214-217			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R218,219			RK73GB1J123J	CHIP R	12K	J	1/16W		

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R220,221			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R222,223			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R224,225			RK73GB1J682J	CHIP R	6.8K	J	1/16W		
R226,227			RK73GB1J104J	CHIP R	100K	J	1/16W		
R228,229			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R230			R92-1979-08	METAL R	0.22	J	1W	5M	
R231,232			RK73GB1J561J	CHIP R	560	J	1/16W		
R233,234			RK73GB1J271J	CHIP R	270	J	1/16W		
R236			RK73GB1J221J	CHIP R	220	J	1/16W	5M	
R237			RK73GB1J122J	CHIP R	1.2K	J	1/16W	5M	
R238,239			RK73GB1J561J	CHIP R	560	J	1/16W	5M	
R240,241			RK73GB1J101J	CHIP R	100	J	1/16W	5M	
R242			JUMPER	JUMPER				7EKV	
R243,244			RK73GB1J334J	CHIP R	330K	J	1/16W	7EKV	
R247			RK73GB1J101J	CHIP R	100	J	1/16W	5M	
R248			RK73GB1J101J	CHIP R	100	J	1/16W		
R249			RK73GB1J101J	CHIP R	100	J	1/16W	5M	
R250			RK73GB1J681J	CHIP R	680	J	1/16W	5M	
R251			RK73GB1J682J	CHIP R	6.8K	J	1/16W	5M	
R252			RK73GB1J100J	CHIP R	10	J	1/16W	5M	
R253			RK73GB1J682J	CHIP R	6.8K	J	1/16W	5M	
R301,302			RK73GB1J101J	CHIP R	100	J	1/16W		
R304-307			RK73GB1J561J	CHIP R	560	J	1/16W		
R308			RK73GB1J273J	CHIP R	27K	J	1/16W		
R310,311			RK73GB1J103J	CHIP R	10K	J	1/16W		
R313			RK73GB1J471J	CHIP R	470	J	1/16W		
R314			RK73GB1J331J	CHIP R	330	J	1/16W		
R315			RK73GB1J181J	CHIP R	180	J	1/16W		
R317			RK73GB1J103J	CHIP R	10K	J	1/16W		
R318,319			RK73GB1J182J	CHIP R	1.8K	J	1/16W		
R320			RK73GB1J242J	CHIP R	2.4K	J	1/16W		
R321			RK73GB1J362J	CHIP R	3.6K	J	1/16W		
R322			RK73GB1J562J	CHIP R	5.6K	J	1/16W	7EKV	
R323			RK73GB1J103J	CHIP R	10K	J	1/16W	7EKV	
R324			RK73GB1J223J	CHIP R	22K	J	1/16W	7EKV	
R325,326			RK73GB1J221J	CHIP R	220	J	1/16W		
R328,329			RK73GB1J182J	CHIP R	1.8K	J	1/16W		
R330			RK73GB1J242J	CHIP R	2.4K	J	1/16W		
R331			RK73GB1J362J	CHIP R	3.6K	J	1/16W		
R332			RK73GB1J562J	CHIP R	5.6K	J	1/16W		
R333			RK73GB1J103J	CHIP R	10K	J	1/16W		
R334			RK73GB1J223J	CHIP R	22K	J	1/16W		
R335			RK73GB1J221J	CHIP R	220	J	1/16W		
R336			RK73GB1J182J	CHIP R	1.8K	J	1/16W		
R337			RK73GB1J103J	CHIP R	10K	J	1/16W		
R338			RK73GB1J182J	CHIP R	1.8K	J	1/16W		
R339			RK73GB1J242J	CHIP R	2.4K	J	1/16W		
R340			RK73GB1J103J	CHIP R	10K	J	1/16W	7EKV	
R341			RK73GB1J562J	CHIP R	5.6K	J	1/16W		
R342			RK73GB1J362J	CHIP R	3.6K	J	1/16W		
R344			RK73GB1J223J	CHIP R	22K	J	1/16W	7EKV	
R346			RK73GB1J471J	CHIP R	470	J	1/16W		
R413			RK73GB1J181J	CHIP R	180	J	1/16W	5M	
R414			RK73GB1J101J	CHIP R	100	J	1/16W	5M	
R415,416			RK73GB1J332J	CHIP R	3.3K	J	1/16W	5M	

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⑬

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R424			RK73GB1J221J	CHIP R	220	J	1/16W	5M	
R429			RK73GB1J100J	CHIP R	10	J	1/16W		
R430-432			RK73GB1J101J	CHIP R	100	J	1/16W	5M	
R433			RK73GB1J473J	CHIP R	47K	J	1/16W		
R434			RK73GB1J101J	CHIP R	100	J	1/16W	7EKV	
R435			RK73GB1J561J	CHIP R	560	J	1/16W		
R436			RK73GB1J473J	CHIP R	47K	J	1/16W		
R437			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R438			RK73GB1J101J	CHIP R	100	J	1/16W		
R439-442			RK73GB1J101J	CHIP R	100	J	1/16W	7EKV	
R501			RK73GB1J682J	CHIP R	6.8K	J	1/16W	5M	
R501			RK73GB1J750J	CHIP R	75	J	1/16W	7EKV	
R502			RK73GB1J682J	CHIP R	6.8K	J	1/16W	5M	
R502			RK73GB1J750J	CHIP R	75	J	1/16W	7EKV	
R503			RK73GB1J682J	CHIP R	6.8K	J	1/16W	5M	
R503			RK73GB1J750J	CHIP R	75	J	1/16W	7EKV	
R504			RK73GB1J272J	CHIP R	2.7K	J	1/16W	5M	
R504			RK73GB1J750J	CHIP R	75	J	1/16W	7EKV	
R505			RK73GB1J272J	CHIP R	2.7K	J	1/16W	7EKMV	
R506			RK73GB1J132J	CHIP R	1.3K	J	1/16W	7EKV	
R506			RK73GB1J562J	CHIP R	5.6K	J	1/16W	5M	
R507			RK73GB1J682J	CHIP R	6.8K	J	1/16W	5M	
R508			RK73GB1J4R7J	CHIP R	4.7	J	1/16W		
R509			RK73GB1J821J	CHIP R	820	J	1/16W		
R510,511			RK73GB1J362J	CHIP R	3.6K	J	1/16W		
R512			RK73GB1J471J	CHIP R	470	J	1/16W		
R513			RK73GB1J474J	CHIP R	470K	J	1/16W		
R514			RK73GB1J334J	CHIP R	330K	J	1/16W		
R515			RK73GB1J104J	CHIP R	100K	J	1/16W		
R516			RK73GB1J363J	CHIP R	36K	J	1/16W	7EKV	
R516			RK73GB1J683J	CHIP R	68K	J	1/16W	5M	
R517			RK73GB1J333J	CHIP R	33K	J	1/16W		
R518			RK73GB1J392J	CHIP R	3.9K	J	1/16W		
R519			RK73GB1J623J	CHIP R	62K	J	1/16W		
R520			RK73GB1J474J	CHIP R	470K	J	1/16W		
R522			RK73GB1J000J	CHIP R	0	J	1/16W	7EKV	
R522			RK73GB1J101J	CHIP R	100	J	1/16W	5M	
R524			RK73GB1J474J	CHIP R	470K	J	1/16W		
R525			RK73GB1J103J	CHIP R	10K	J	1/16W		
R526,527			RK73GB1J224J	CHIP R	220K	J	1/16W		
R528			RK73GB1J753J	CHIP R	75K	J	1/16W		
R529			RK73GB1J103J	CHIP R	10K	J	1/16W	5M	
R529			RK73GB1J123J	CHIP R	12K	J	1/16W	7EKV	
R530			RK73GB1J103J	CHIP R	10K	J	1/16W	5M	
R530			RK73GB1J123J	CHIP R	12K	J	1/16W	7EKV	
R531			RK73GB1J183J	CHIP R	18K	J	1/16W		
R532			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R533			RK73GB1J124J	CHIP R	120K	J	1/16W	7EKV	
R533			RK73GB1J683J	CHIP R	68K	J	1/16W	5M	
R535			RK73GB1J393J	CHIP R	39K	J	1/16W	5M	
R535			RK73GB1J683J	CHIP R	68K	J	1/16W	7EKV	
R536			RK73GB1J472J	CHIP R	4.7K	J	1/16W	5M	
R536			RK73GB1J622J	CHIP R	6.2K	J	1/16W	7EKV	
R539			RK73GB1J273J	CHIP R	27K	J	1/16W		
R542			RK73GB1J224J	CHIP R	220K	J	1/16W		

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⑭

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R543			RK73GB1J473J	CHIP R	47K	J	1/16W		
R544			RK73GB1J563J	CHIP R	56K	J	1/16W		
R545			RK73GB1J823J	CHIP R	82K	J	1/16W		
R546			RK73GB1J563J	CHIP R	56K	J	1/16W		
R547			RK73GB1J181J	CHIP R	180	J	1/16W		
R548			RK73GB1J221J	CHIP R	220	J	1/16W		
R549			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R551			RK73GB1J560J	CHIP R	56	J	1/16W		
R552			RK73GB1J103J	CHIP R	10K	J	1/16W		
R555			RK73GB1J224J	CHIP R	220K	J	1/16W		
R558-560			RK73GB1J101J	CHIP R	100	J	1/16W	7EKV	
R562			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R563			R92-1978-08	FUSE METAL	2.2	J	1/2W		
R567			R92-1978-08	FUSE METAL	2.2	J	1/2W		
R569-576			RK73GB1J103J	CHIP R	10K	J	1/16W		
R577,578			RK73GB1J223J	CHIP R	22K	J	1/16W		
R579			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R580			RK73GB1J474J	CHIP R	470K	J	1/16W		
R581,582			RK73GB1J101J	CHIP R	100	J	1/16W	7EKV	
R583			RK73GB1J243J	CHIP R	24K	J	1/16W	7EKV	
R584			RK73GB1J562J	CHIP R	5.6K	J	1/16W	7EKV	
R585-587			RK73GB1J101J	CHIP R	100	J	1/16W	7EKV	
R588			RK73GB1J223J	CHIP R	22K	J	1/16W	7EKV	
R589,590			RK73GB1J105J	CHIP R	1.0M	J	1/16W	7EKV	
R591-595			RK73GB1J101J	CHIP R	100	J	1/16W	7EKV	
R598			RK73GB1J562J	CHIP R	5.6K	J	1/16W	7EKV	
R599,600			RK73GB1J104J	CHIP R	100K	J	1/16W		
R700			RK73GB1J473J	CHIP R	47K	J	1/16W		
R701-705			RK73GB1J561J	CHIP R	560	J	1/16W		
R706			RK73GB1J101J	CHIP R	100	J	1/16W		
R707			RK73GB1J225J	CHIP R	2.2M	J	1/16W		
R708			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R709			RK73GB1J561J	CHIP R	560	J	1/16W		
R710			RK73GB1J561J	CHIP R	560	J	1/16W	57E	
R711-713			RK73GB1J561J	CHIP R	560	J	1/16W		
R714			RK73GB1J561J	CHIP R	560	J	1/16W	7EKMV	
R715			RK73GB1J561J	CHIP R	560	J	1/16W		
R717			RK73GB1J561J	CHIP R	560	J	1/16W		
R718			RK73GB1J561J	CHIP R	560	J	1/16W	57E	
R719			RK73GB1J561J	CHIP R	560	J	1/16W		
R720			RK73GB1J561J	CHIP R	560	J	1/16W	5M	
R721			RK73GB1J103J	CHIP R	10K	J	1/16W	5M	
R722-724			RK73GB1J473J	CHIP R	47K	J	1/16W		
R727			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R729,730			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R731,732			RK73GB1J561J	CHIP R	560	J	1/16W		
R733,734			RK73GB1J561J	CHIP R	560	J	1/16W	5M	
R735			RK73GB1J561J	CHIP R	560	J	1/16W		
R739-741			RK73GB1J561J	CHIP R	560	J	1/16W		
R743			RK73GB1J561J	CHIP R	560	J	1/16W		
R744			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R745			RK73GB1J561J	CHIP R	560	J	1/16W		
R746,747			RK73GB1J561J	CHIP R	560	J	1/16W	5M	
R748,749			RK73GB1J561J	CHIP R	560	J	1/16W		
R751-754			RK73GB1J561J	CHIP R	560	J	1/16W	5M	

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
R756			RK73GB1J561J	CHIP R 560 J 1/16W	5M	
R757			RK73GB1J561J	CHIP R 560 J 1/16W	5M	
R758,759			RK73GB1J561J	CHIP R 560 J 1/16W		
R761			RK73GB1J561J	CHIP R 560 J 1/16W		
R764-771			RK73GB1J473J	CHIP R 47K J 1/16W	5M	
R772,773			RK73GB1J473J	CHIP R 47K J 1/16W		
R774			RK73GB1J153J	CHIP R 15K J 1/16W	5M	
R775-777			RK73GB1J561J	CHIP R 560 J 1/16W		
R783			RK73GB1J473J	CHIP R 47K J 1/16W		
R784-786			RK73GB1J561J	CHIP R 560 J 1/16W		
R789,790			RK73GB1J561J	CHIP R 560 J 1/16W		
R791			RK73GB1J473J	CHIP R 47K J 1/16W		
R792,793			RK73GB1J561J	CHIP R 560 J 1/16W		
R794,795			RK73GB1J561J	CHIP R 560 J 1/16W	7EKV	
R796			RK73GB1J561J	CHIP R 560 J 1/16W		
R801			RK73GB1J561J	CHIP R 560 J 1/16W		
R802,803			RK73GB1J103J	CHIP R 10K J 1/16W		
R804			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R805			RK73GB1J104J	CHIP R 100K J 1/16W		
R806			RK73GB1J103J	CHIP R 10K J 1/16W		
R807			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R808,809			RK73GB1J561J	CHIP R 560 J 1/16W		
R810			RK73GB1J121J	CHIP R 120 J 1/16W		
R811,812			RK73GB1J473J	CHIP R 47K J 1/16W		
R820			RK73GB1J561J	CHIP R 560 J 1/16W		
R826			RK73GB1J473J	CHIP R 47K J 1/16W	57E	
R850			RK73GB1J473J	CHIP R 47K J 1/16W		
R855			RK73GB1J512J	CHIP R 5.1K J 1/16W		
R929-932			RS14KB3A221J	FL-PROOF RS 220 J 1W	7EKV	
R937-942			RN14BK2E220J	RN 22 J 1/4W	7EKV	
R949,950			RS14KB3A100J	FL-PROOF RS 10 J 1W	7EKV	
R951,952			RN14BK2E220J	RN 22 J 1/4W	7EKV	
VR301		✻	T99-0686-08	SW,ENCODER G121162401200		
VR901,902			R12-0604-05	VR,SEMI CERMET C544101015100	7EKV	
VR903,904			R12-0606-05	VR,SEMI CERMET C544331015010	7EKV	
RL101			S76-0076-05	RELAY G680242000000		
⚠ RL103			S76-0090-05	RELAY G680090502010		
⚠ SW101			S62-0098-08	SW,SLIDE G060040550010	M	
SW301-304		✻	S70-0105-08	SW,TACT G180000270010		
SW305		✻	S70-0105-08	SW,TACT G180000270010	5M	
SW306-308		✻	S70-0105-08	SW,TACT G180000270010	7EKV	
SW311-318		✻	S70-0105-08	SW,TACT G180000270010		
SW319-324		✻	S70-0105-08	SW,TACT G180000270010	5M	
SW325,326		✻	S70-0105-08	SW,TACT G180000270010	7EKV	
D1,2			1N4148	D,SWITCHING K000414803520	5M	
⚠ D102			D2SBA60	D,RECTIFIER BRIK047400300020		
D105			1SS355	D,SWITCHING CHIK005035500010		
⚠ D106			D2SBA60	D,RECTIFIER BRIK047400300020		
D107			1SS355	D,SWITCHING CHIK005035500010		
⚠ D110,111			1SS355	D,SWITCHING CHIK005035500010		
D112			1N4148	D,SWITCHING K000414803520		
D115			1SS355	D,SWITCHING CHIK005035500010		
D116			1N4007	D,SWITCHING K000400700520		
D117,118			1N4148	D,SWITCHING K000414803520		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
⚠ D190-193			1N4007	D,SWITCHING K000400700520		
D200			1N4148	D,SWITCHING K000414803520	5M	
D201-203			1SS355	D,SWITCHING CHIK005035500010	5M	
D501,502			1N4148	D,SWITCHING K000414803520		
D503			KDS226	D,SWITCHING CHIK005022600020	7EKV	
D504			1SS355	D,SWITCHING CHIK005035500010		
D706			KDS181	D,SWITCHING CHIK005018100010		
D708			1SS355	D,SWITCHING CHIK005035500010		
D901-904			1N4148	D,SWITCHING K000414803520	7EKV	
⚠ IC1			STK402-030	IC(2CH AF POWER AMP)02030000	5	
⚠ IC1			STK402-040	IC,HYBRID J100402040010	M	
⚠ IC101,102			KIA7805API	IC(VOLTAGE REGULATOR)0500110		
⚠ IC103			SI-3050J	IC(REGULATOR)ULJ126305000010		
⚠ IC104			KIA7809API	IC(ANALOGUE IC)J126780900020		
⚠ IC105			KIA7912PI	IC(ANALOGUE IC)J126791200060		
⚠ IC106,107			KIA7812PI	IC,LINEAR-REGULJ126781200040		
⚠ IC108			KIA7812PI	IC,LINEAR-REGULJ126781200040	M	
⚠ IC109			KIA7805API	IC(VOLTAGE REGULATOR)0500110		
IC201			NJM4565MD	IC(OP AMP X2) J121456500040	5M	
IC203			M62429P	IC(ELECTRIC VOLUME)624290010	5M	
IC204			M61510FP	IC(SOUND CONTROLLER)15100010		
IC205			BA6138	IC(ROOT AMP X2)J121613800010	7EKV	
IC206			74LCX08	IC,LOGIC J040740800170	5M	
IC301			M66005-001AFP	IC,LINEAR-DRIVEJ127660050020		
IC501			AN2200A	IC,OPTICAL-RF AJ030220000000		
IC502			MN6627482WA	IC,OPTICAL-DSP J031662740000		
IC503			BA5983FM	IC(ANALOGUE IC)J127598300000		
⚠ IC504			BA6956AN	IC,LINEAR-DRIVEJ127695600010		
⚠ IC505			BA6956AN	IC,LINEAR-DRIVEJ127695600010	5M	
IC506			KAN06	IC(D.R.I.V.E)FIJ047030000020	7EKV	
IC507			PCM1742	IC,LOGIC-D/A COJ042174200010	7EKV	
IC508			NJM4565MD	IC(OP AMP X2) J121456500040		
IC700		✻	M30624MGA149FP	IC,CPU MICRO PRJ020306241060	5M	
IC700		✻	M30624MGA150FP	IC,CPU MICRO PRJ020306241090	7EKV	
IC701			KIA7042P	IC,LINEAR-RESETJ125704200010		
Q1,2			KTC2874B	SEMI,TR/GE NPN J502287400010	5M	
Q3,4			KSC1845F	SEMI,TR/GE NPN J5021845F0000	5M	
Q101			2SA1037K	SEMI,CHIP TR/PNJ5201037K0210		
Q102			KRC102S	SEMI,CHIP TR/NPJ522010200210		
⚠ Q104			KSA916-Y	SEMI,TR/GE PNP J5000916Y0050		
Q106			KSA992F-X	SEMI,TR/GE PNP J5000992F0050		
Q107,108			KSC1845F	SEMI,TR/GE NPN J5021845F0000		
Q109			KTC3875Y	SEMI,CHIP TR/NPJ5223875Y0210		
Q110			2SC1740SR	SEMI,TR/GE NPN J5021740S0010	M	
Q111			DTA114ES	SEMI,BRT/PNP RAJ6000114E0010	M	
Q112			KSA992F-X	SEMI,TR/GE PNP J5000992F0050		
Q113			2SC1740SR	SEMI,TR/GE NPN J5021740S0010		
Q200			KRA102M	SEMI,BRT/PNP RAJ6002202M0010	5M	
Q201			KRC102M	SEMI,BRT/NPN RCJ6020102M0010		
Q202			KSA916-Y	SEMI,TR/GE PNP J5000916Y0050		
Q203			KRA102S	SEMI,CHIP TR/PNJ520010200210		
Q301-303			KRC103S	SEMI,CHIP TR/NPJ522010300210		
Q501			KTA1273Y	SEMI,TR/GE PNP J5001273Y0050		
Q502,503			KRA102S	SEMI,CHIP TR/PNJ520010200210		
Q504			KTC3875Y	SEMI,CHIP TR/NPJ5223875Y0210		

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Q505			KRC102S	SEMI,CHIP TR/NPJ522010200210		
Q506,507			KRA102S	SEMI,CHIP TR/PNJ520010200210		
Q508			KRC102S	SEMI,CHIP TR/NPJ522010200210		
Q700			KTC3875Y	SEMI,CHIP TR/NPJ5223875Y0210		
Q701			KTC3875Y	SEMI,CHIP TR/NPJ5223875Y0210	7EKV	
Q702			KTC3875Y	SEMI,CHIP TR/NPJ5223875Y0210	7EKV	
Q901,902			KTC2874B	SEMI,TR/GE NPN J502287400010	7EKV	
Q903-906			2SK364(BL)	SEMI,FET/P 2SK J5410364B0000	7EKV	
Q907-910			KSC1845F	SEMI,TR/GE NPN J5021845F0000	7EKV	
Q911-916			KSA992F-X	SEMI,TR/GE PNP J5000992F0050	7EKV	
Q917,918			KSC1845F	SEMI,TR/GE NPN J5021845F0000	7EKV	
⚠ Q919			TRAITR2N	SEMI,TR/GE NPN J503150000030	7EKV	
⚠ Q920			TRAITR2P	SEMI,TR/GE PNP J503150000030	7EKV	
Q921,922			KSC1845F	SEMI,TR/GE NPN J5021845F0000	7EKV	
⚠ Q923			TRAITR2P	SEMI,TR/GE PNP J503150000030	7EKV	
⚠ Q924			TRAITR2N	SEMI,TR/GE NPN J503150000030	7EKV	
RM301		✻	W02-2995-08	MODULE,REMOCON E940633800000		
ZD103			MTZJ24B	D,ZENER K06024R044520		
ZD104			MTZJ13B	D,ZENER		
ZD105			MTZJ24B	D,ZENER K06024R044520		
ZD200			MTZJ5.1B	D,ZENER K06005R144520	5M	
ZD201			MTZJ5.1B	D,ZENER K06005R144520		
ZD301			MTZJ6.2B	D,ZENER K06006R244520		
JACK200			W02-2802-05	MODULE E100J40000010	5M	
JACK201			W02-2803-05	MODULE E100J30000010		
HEADPHONE PCB						
C156,157			CK73GB1H221K	CHIP C 220PF K		
R152,153			RS14KB3A100J	FL-PROOF RS 10 J 1W		
R161,162			RN14BK2E331J	RN 330 J 1/4W		
R165,166			RN14BK2E680J	RN 68 J 1/4W		
Q110,111			2SC4213(B)	SEMI,CHIP TR/NPJ5222875B0010		
MD CONTROL PCB						
C1			CK73GF1E104Z	CHIP C 0.10UF Z		
C1			CK73GF1H104Z	CHIP C 0.10UF Z		
C2 ,3			CE32AP0J101M	CHIP EL 100UF 6.3WV		
C4			CK73GF1A105Z	CHIP C 1.0UF Z		
C5			CK73GF1E104Z	CHIP C 0.10UF Z		
C5			CK73GF1H104Z	CHIP C 0.10UF Z		
C7			CK73GB0J474K	CHIP C 0.47UF K		
C8			CK73GF1E104Z	CHIP C 0.10UF Z		
C8			CK73GF1H104Z	CHIP C 0.10UF Z		
C9			CK73GB1H472K	CHIP C 4700PF K		
C10			CC73GCH1H101J	CHIP C 100PF J		
C11			CK73FB1A225K	CHIP C 2.2UF K		
C12			CK73GB1E153K	CHIP C 0.015UF K		
C13			CK73GF1E104Z	CHIP C 0.10UF Z		
C13			CK73GF1H104Z	CHIP C 0.10UF Z		
C14			CC73GCH1H100D	CHIP C 10PF D		
C15			CK73GF1E104Z	CHIP C 0.10UF Z		
C15			CK73GF1H104Z	CHIP C 0.10UF Z		
C18			CK73GB1E103K	CHIP C 0.010UF K		
C19 -27			CK73GF1E104Z	CHIP C 0.10UF Z		

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⑱

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C19 -27			CK73GF1H104Z	CHIP C 0.10UF Z		
C30			CE32AP0J220M	CHIP EL 22UF 6.3WV		
C31			CE32AP0J101M	CHIP EL 100UF 6.3WV		
C32			CK73GB1H222K	CHIP C 2200PF K		
C35			C92-0232-05	ELECTRO 10UF 16WV		
C36			CK73GF1E104Z	CHIP C 0.10UF Z		
C36			CK73GF1H104Z	CHIP C 0.10UF Z		
C37			CK73GB1H222K	CHIP C 2200PF K		
C38			CK73GF1E104Z	CHIP C 0.10UF Z		
C38			CK73GF1H104Z	CHIP C 0.10UF Z		
C39			C92-0232-05	ELECTRO 10UF 16WV		
C40			C91-1597-05	CERAMIC 4.7UF Z		
C41			C93-0032-05	CHIP C 10UF 10WV		
C42 ,43			CK73GB1H221K	CHIP C 220PF K		
C45			CE32AP0J101M	CHIP EL 100UF 6.3WV		
C46 -48			CK73GF1E104Z	CHIP C 0.10UF Z		
C46 -48			CK73GF1H104Z	CHIP C 0.10UF Z		
C51			C92-0232-05	ELECTRO 10UF 16WV		
C52			CK73GF1E104Z	CHIP C 0.10UF Z		
C52			CK73GF1H104Z	CHIP C 0.10UF Z		
C54			CK73GB1E223K	CHIP C 0.022UF K		
C55			CK73GB1H102K	CHIP C 1000PF K		
C56			CK73GF1A105Z	CHIP C 1.0UF Z		
C57			CK73GB1C104K	CHIP C 0.10UF K		
C58			CK73GB1E103K	CHIP C 0.010UF K		
C59			CK73GB1E223K	CHIP C 0.022UF K		
C60			CE32AP1C100M	CHIP EL 10UF 16WV		
C62			CK73GB1C104K	CHIP C 0.10UF K		
C63			CK73GB1E103K	CHIP C 0.010UF K		
C64			CK73GB1E223K	CHIP C 0.022UF K		
C65			CK73GB1A224K	CHIP C 0.22UF K		
C66			CK73GF1A105Z	CHIP C 1.0UF Z		
C67			CK73GB1H472K	CHIP C 4700PF K		
C68			CK73GB1C683K	CHIP C 0.068UF K		
C69			CK73GB1E223K	CHIP C 0.022UF K		
C71 ,72			CK73GF1E104Z	CHIP C 0.10UF Z		
C71 ,72			CK73GF1H104Z	CHIP C 0.10UF Z		
C73 ,74			CK73GF1A105Z	CHIP C 1.0UF Z		
C75			CK73GF1E104Z	CHIP C 0.10UF Z		
C75			CK73GF1H104Z	CHIP C 0.10UF Z		
C76			CK73GB0J474K	CHIP C 0.47UF K		
C80			CE32AP1A101M	CHIP EL 100UF 10WV		
C81			CK73GF1E104Z	CHIP C 0.10UF Z		
C81			CK73GF1H104Z	CHIP C 0.10UF Z		
C84 ,85			CC73GCH1H821J	CHIP C 820PF J		
C86 ,87			CC73GCH1H391J	CHIP C 390PF J		
C89			CK73GF1E104Z	CHIP C 0.10UF Z		
C89			CK73GF1H104Z	CHIP C 0.10UF Z		
CN2			E40-8074-05	FLAT CABLE CONNECTOR		
CN3			E40-8687-05	FLAT CABLE CONNECTOR		
L1 -5			L79-1216-05	LINE FILTER		
L1 -5			L92-0075-05	FERRITE CHIP		
L6 ,7			L92-0562-05	FERRITE CHIP		
L8			L79-1216-05	LINE FILTER		
L8			L92-0075-05	FERRITE CHIP		

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(19)

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
X1			L77-2328-05	CRYSTAL OSC	(16.9344MHZ)			
R1			RK73GB1J3R3J	CHIP R	3.3	J 1/16W		
R3 -6			RK73GB1J221J	CHIP R	220	J 1/16W		
R11			RK73GB1J221J	CHIP R	220	J 1/16W		
R12			RK73GB1J3R3J	CHIP R	3.3	J 1/16W		
R14			RK73GB1J104J	CHIP R	100K	J 1/16W		
R15			RK73GB1J684J	CHIP R	680K	J 1/16W		
R16			RK73GB1J101J	CHIP R	100	J 1/16W		
R17			RK73GB1J331J	CHIP R	330	J 1/16W		
R18			RK73GB1J333J	CHIP R	33K	J 1/16W		
R19			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R20			RK73GB1J151J	CHIP R	150	J 1/16W		
R21 ,22			RK73GB1J103J	CHIP R	10K	J 1/16W		
R23			RK73GB1J104J	CHIP R	100K	J 1/16W		
R24			RK73GB1J101J	CHIP R	100	J 1/16W		
R25 ,26			RK73GB1J470J	CHIP R	47	J 1/16W		
R27 -30			RK73GB1J101J	CHIP R	100	J 1/16W		
R32			RK73EB2B101J	CHIP R	100	J 1/8W		
R35			RK73GB1J1R0J	CHIP R	1	J 1/16W		
R36 ,37			RK73GB1J101J	CHIP R	100	J 1/16W		
R39 ,40			RK73GB1J471J	CHIP R	470	J 1/16W		
R42			RK73GB1J123J	CHIP R	12K	J 1/16W		
R43			RK73GB1J133J	CHIP R	13K	J 1/16W		
R46			RK73GB1J2R2J	CHIP R	2.2	J 1/16W		
R47 ,48			RK73GB1J473J	CHIP R	47K	J 1/16W		
R49			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R50			RK73GB1J101J	CHIP R	100	J 1/16W		
R51			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R52 -55			RK73GB1J474J	CHIP R	470K	J 1/16W		
R56 -58			RK73GB1J473J	CHIP R	47K	J 1/16W		
R59 ,60			RK73GB1J103J	CHIP R	10K	J 1/16W		
R62			RK73GB1J473J	CHIP R	47K	J 1/16W		
R64			RK73GB1J473J	CHIP R	47K	J 1/16W		
R65 ,66			RK73GB1J101J	CHIP R	100	J 1/16W		
R67			RK73GB1J473J	CHIP R	47K	J 1/16W		
R68			RK73GB1J123J	CHIP R	12K	J 1/16W		
R70			RK73GB1J3R3J	CHIP R	3.3	J 1/16W		
R70			RK73GB1J363J	CHIP R	36K	J 1/16W		
R71			RK73GB1J563J	CHIP R	56K	J 1/16W		
R72			RK73GB1J133J	CHIP R	13K	J 1/16W		
R73			RK73GB1J153J	CHIP R	15K	J 1/16W		
R75 ,76			RK73GB1J104J	CHIP R	100K	J 1/16W		
R77			RK73GB1J103J	CHIP R	10K	J 1/16W		
R78			RK73GB1J101J	CHIP R	100	J 1/16W		
R79			RK73GB1J561J	CHIP R	560	J 1/16W		
R80			RK73GB1J101J	CHIP R	100	J 1/16W		
R82			RK73GB1J101J	CHIP R	100	J 1/16W		
R85			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R86			RK73GB1J474J	CHIP R	470K	J 1/16W		
R87			RK73GB1J335J	CHIP R	3.3M	J 1/16W		
R88			RK73GB1J474J	CHIP R	470K	J 1/16W		
R89			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R93			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R94			RK73GB1J681J	CHIP R	680	J 1/16W		
R95			RK73GB1J472J	CHIP R	4.7K	J 1/16W		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
R96			RK73GB1J104J	CHIP R	100K	J 1/16W		
R97			R92-1853-05	CHIP-RN	1	1/4W		
R98			RK73EB2B2R2J	CHIP R	2.2	J 1/8W		
R99			RK73GB1J223J	CHIP R	22K	J 1/16W		
R100			RK73GB1J393J	CHIP R	39K	J 1/16W		
R101-103			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R104			RK73GB1J393J	CHIP R	39K	J 1/16W		
R105			RK73GB1J103J	CHIP R	10K	J 1/16W		
R117,118			RK73GB1J513J	CHIP R	51K	J 1/16W		
R119,120			RK73GB1J104J	CHIP R	100K	J 1/16W		
R121			RK73GB1J333J	CHIP R	33K	J 1/16W		
R122,123			RK73GB1J104J	CHIP R	100K	J 1/16W		
R124			RK73GB1J333J	CHIP R	33K	J 1/16W		
R129			RK73GB1J105J	CHIP R	1.0M	J 1/16W		
R130,131			R92-1854-05	RN	2.2	K 1/2W		
W1 ,2			R92-0679-05	CHIP R	0 OHM			
W4 -6			R92-0679-05	CHIP R	0 OHM			
W7 ,8			R92-1252-05	CHIP R	0 OHM	J 1/16W		
W10 ,11			R92-1252-05	CHIP R	0 OHM	J 1/16W		
W12 -14			R92-0679-05	CHIP R	0 OHM			
W16			R92-0679-05	CHIP R	0 OHM			
W18			R92-0679-05	CHIP R	0 OHM			
W19			R92-1252-05	CHIP R	0 OHM	J 1/16W		
S1			S68-0133-05	PUSH SWITCH				
S2 ,3			S64-0052-05	LEVER SWITCH				
S4			S68-0145-05	PUSH SWITCH				
S5			S64-0052-05	LEVER SWITCH				
D1 ,2			FS1J6TP	DIODE				
D3			MA111	DIODE				
IC1			CXD2664R	IC(DIGITAL SIGNAL PROCESSOR)				
IC2			CXA2523AR	IC(RF SERVO)				
IC2			CXA2523AR*	IC				
IC3			HD6432225N05FA	IC				
IC4			BA5815FM	IC(ANALOGUE IC)				
IC5			A42L2604-45-Q	IC				
IC5			IC41LV4400250T	IC(MEMORY IC)				
IC5			M51V16405D50T	IC(MEMORY IC)				
⚠ IC6			RC1117S33T	IC				
IC7			BR24C02F	IC(E2PROM)				
IC7			CAT24WC02JI	IC				
IC7			HT24LC02-8S	IC(MEMORY IC)				
IC7			S-24C02BFJ-TB	IC(MEMORY IC)				
IC8			BD7910FV	IC(MD RECORDING HEAD COIL)				
⚠ IC9			XC6201P262MR	IC				
IC10			AK4550VT	IC(A/D D/A CONVERTER)				
IC11			CY27022SC	IC				
Q1			UMW1N	TRANSISTOR				
Q2			2SA1576A(R,S)	TRANSISTOR				
Q3			2SB798-DL	TRANSISTOR				
Q4			DTA144EUA	TRANSISTOR				
Q5 ,6			DTC114YUA	TRANSISTOR				
Q7			DTA124EUA	TRANSISTOR				
Q10			DTC124EUA	TRANSISTOR				
Q11			DTA144EUA	TRANSISTOR				
Q12			2SB1412F5(Q,R)	TRANSISTOR				

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RD-HD5MD/HD7

SPECIFICATIONS

Main unit

[Amplifier section]

(For U.S.A. and Canada)
Rated output power during STEREO operation (FTC)

> 22 watts per channel minimum RMS, both channels driven, at 6 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.

(For U.K. and Europe)
Effective output power during STEREO operation
(1 kHz, 10% T.H.D., at 6 W) ..... 35 W + 35 W
Rated output power during STEREO operation (DIN)
(1 kHz, 0.7% T.H.D., at 6 Ω) ..... 25W + 25 W
Total harmonic distortion
(1 kHz, 17.5W, at 6 Ω) 0.008%
Frequency response ..... 30Hz ~ 100kHz (+0dB, -3dB)

[CD player section]

Laser ..... Semiconductor laser
D/A Conversion .....
1 Bit D/A converter achieving a 24bit resolution
Over sampling ..... 8 fs (352.8 kHz)
Frequency response ..... 20Hz ~ 20kHz (+0.5dB, -1dB)
Signal to noise ratio 98dB
Digital output
Optical ..... -15dBm ~ -21dBm

[Tuner section]

FM tuner section
Tuning frequency range ..... 87.5 MHz ~ 108 MHz

AM tuner section

(For U.S.A. and Canada)
Tuning frequency range ..... 530 kHz ~ 1,700 kHz

(For U.K. and Europe)
Tuning frequency range ..... 531 kHz ~ 1,602 kHz

[General]

Power consumption ..... 80 W
Dimensions ..... W : 220 mm (8-11/16")
H : 145 mm (5-11/16")
D : 356 mm (14")
Weight (net) ..... 5.9 kg (13.0 lb)

Speakers

Enclosure ..... Bass-reflex type (Magnetically shielded)
Speaker configuration
Woofer ..... 120 mm, cone type
Tweeter ..... 25 mm, dome type
Impedance ..... 6 Ω
Maximum input power ..... 60 W
Dimensions ..... W: 155 mm (6-1/8")
H : 270 mm (10-5/8")
D : 263 mm (10-3/8")
Weight (net) ..... 4.5kg (9.9 lb) (1 piece)

Notes

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

- Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

HOW TO READ THE PARTS LIST
ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
RD-HD5MD		-	-	-	5	-	-	-	-
RD-HD7		-	-	-	7	E	-	-	-
MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
RD-HD5MD		-	-	-	-	-	-	M	
RD-HD7		-	-	-	-	V	K	-	

RD-HD5MD/HD7

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